A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

# SOLAR-GEOPHYSICAL DATA
# (comprehensive reports)

U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

FEBRUARY 1974

NUMBER 354-PART II
DATA FOR
AUGUST 1973
JULY 1973
& MISCELLANEA

U.S. DEPARTMENT OF COMMERCE
Frederick B. Dent, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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ENVIRONMENTAL DATA SERVICE
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# Solar - Geophysical Data

NO. 354 FEBRUARY 1974

## Part II (Comprehensive Reports)

DATA FOR
AUGUST 1973
JULY 1973
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
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# SOLAR - GEOPHYSICAL DATA

No. 354

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

# SOLAR FLARES
## Confirmed

### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | |
| GRP49286 | 01 | 0642 | 0705 | 0644 | S06 | W10 | .266 | 12460 | 31.5 | 23 | -N | | | | 1.13 | | | | 7 7 7 8 |
| CATA | 01 | 0640 | 0720 | 0645 | S04 | W13 | .280 | 12460 | 31.3 | 40 | -B | 3 | C | 0645 | 1.16 | 1.20 | | (214) | Z |
| ATHN | 01 | 0640 | 0655D | 0644 | S07 | W11 | .290 | 12460 | 31.5 | 150 | -N | 2 | C | | .66 | | | | F |
| TEHR | 01 | 0641 | 0656 | 0644 | S06 | W08 | .246 | 12460 | 31.7 | 15 | -N | 3 | C | | .45 | | | | F |
| CRON | 01 | 0642E | 0702 | | S06 | W11 | .277 | 12460 | 31.5 | 200 | -N | | V | | .90 | | | | |
| MONT | 01 | 0643E | 0706 | 0643 | S07 | W10 | .279 | 12460 | 31.5 | 230 | -N | | C | 0643 | .52 | | | | |
| BUCA | 01 | 0644E | 0708D | | S05 | W11 | .265 | 12460 | 31.5 | 240 | -N | | P | 0648 | 1.10 | 1.10 | | | |
| WEND | 01 | 0647 | 0658 | | S05 | W09 | .242 | 12460 | 31.6 | 11 | 1F | | V | | 3.09 | | | | |
| GRP49287 | 01 | 1140 | 1159 | 1145 | S09 | W13 | .336 | 12460 | 31.5 | 19 | --N | | | | .81 | | | | 4 4 4 7 |
| CANR | 01 | 1138 | 1200 | 1141 | S06 | W14 | .314 | 12460 | 31.4 | 22 | -N | | V | 1141 | 1.20 | 1.20 | | | |
| TEHR | 01 | 1139 | 1158 | 1143 | S09 | W15 | .359 | 12460 | 31.4 | 19 | -N | 2 | C | | .64 | | | | F |
| RAMY | 01 | 1142 | 1200 | 1146 | S12 | W06 | .321 | 12460 | 1.0 | 18 | -N | 3 | C | | .56 | | | | F |
| ATHN | 01 | 1151E | 1153D | 1151U | S07 | W15 | .337 | 12460 | 31.4 | 20 | -N | 3 | V | | .83 | | | | F |
| GRP49289 | 01 | 1752 | 1835 | 1756 | S17 | W17 | .474 | 12460 | 31.5 | 43 | --F | | | | 1.40 | | | | 2 1 1 2 |
| CANR | 01 | 1752 | 1835 | 1756 | S17 | W17 | .474 | 12460 | 31.5 | 43 | -F | | V | | 1.40 | | | | |
| PALE | 01 | 1809E | 1817D | 1812 | S06 | W18 | .366 | 12460 | 31.4 | 80 | -F | 2 | C | | .45 | | | | F |
| GRP49290 | 01 | 1754 | 1828 | 1805 | S10 | E84 | .996 | 12472 | 8.0 | 34 | --F | | | | .43 | | | | 2 2 2 3 |
| CANR | 01 | 1754 | 1828 | 1801 | S09 | E85 | .998 | 12472 | 8.1 | 34 | -F | | V | | .40 | | | | |
| PALE | 01 | 1809E | 1817D | 1809U | S11 | E82 | .993 | 12472 | 7.9 | 80 | -N | 2 | C | | .45 | | | | |
| 291 PALE | 01 | 1909E | 1925 | 1910 | S13 | E85 | .998 | 12472 | 8.2 | 160 | -N | 3 | C | | .45 | | | | 2 |
| 292 PALE | 01 | 1910 | 1916 | 1912 | S06 | W18 | .366 | 12460 | 31.4 | 6 | --F | 3 | C | | .27 | | | | F 2 |
| | 01 | 2207 | 2215 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49295 | 02 | 0407 | 0440 | 0418 | S07 | W22 | .429 | 12460 | 31.5 | 33 | -N | | | | 1.54 | | | | 5 4 4 7 |
| TEHR | 02 | 0407E | 0440 | 0410U | S08 | W20 | .411 | 12460 | 31.7 | 330 | -N | 4 | V | | 1.34 | | | | F |
| ATHN | 02 | 0410E | 0439 | 0410U | S07 | W23 | .443 | 12460 | 31.4 | 290 | -N | 2 | C | | .83 | | | | F |
| MITK | 02 | 0411E | 0449D | | S08 | W23 | .451 | 12460 | 31.4 | 380 | 1N | | C | 0411 | 2.17 | 2.40 | | | E |
| TACH | 02 | 0412E | 0433 | 0417 | S06 | W23 | .436 | 12460 | 31.5 | 210 | -N | V | | 0417 | 1.83 | 2.02 | 2.39 | 53 | D |
| PALE | 02 | 0432E | 0442D | 0433 | S08 | W24 | .464 | 12460 | 31.4 | 100 | -N | 2 | C | | 1.34 | | | | F |
| GRP49296 | 02 | 0443 | 0455 | 0449 | S10 | E70 | .948 | 12472 | 7.4 | 12 | -B | | | | .48 | | | | 2 2 2 6 |
| MITK | 02 | 0443 | 0449D | | S09 | E70 | .947 | 12472 | 7.4 | 60 | -B | | C | 0449 | .62 | | | | D |
| ATHN | 02 | 0448E | 0455 | 0449 | S10 | E70 | .948 | 12472 | 7.5 | 70 | -N | 3 | V | | .33 | | | | F |
| GRP49297 | 02 | 1249 | 1258 | 1250 | S11 | E68 | .938 | 12472 | 7.6 | 9 | --F | | | | .44 | | | | 3 3 3 7 |
| CANR | 02 | 1248 | 1256 | 1250 | S08 | E67 | .929 | 12472 | 7.6 | 8 | -F | | V | 1250 | .60 | | | | |
| CATA | 02 | 1250 | 1300D | 1250 | S11 | E64 | .913 | 12472 | 7.3 | 100 | -N | 3 | P | 1250 | .29 | .71 | | (162) | |
| UPIC | 02 | 1252E | 1255U | | S13 | E74 | .970 | 12472 | 8.1 | 30 | -F | | P | 1252 | .42 | | | | |
| GRP49298 | 02 | 1844 | 1900 | 1846 | S08 | W31 | .557 | 12460 | 31.5 | 16 | --N | | | | .60 | | | | 2 2 2 2 |
| PALE | 02 | 1843 | 1910 | 1846 | S09 | W31 | .563 | 12460 | 31.5 | 27 | -N | 3 | V | | .88 | | | | SDE |
| MCMA | 02 | 1844 | 1850 | | S07 | W31 | .552 | 12460 | 31.5 | 6 | -N | | C | 1847 | .31 | .40 | | | EJ |
| | 02 | 2003 | 2020 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 02 | 2044 | 2133 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 02 | 2134 | 2140 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49301 | 03 | 0613 | 0635 | 0616 | S13 | E63 | .909 | 12472 | 8.0 | 22 | -N | | | | .68 | | | | 3 3 3 7 |
| CATA | 03 | 0610E | 0640 | 0610 | S14 | E60 | .889 | 12472 | 7.8 | 300 | -N | 3 | P | 0610 | .58 | 1.26 | | (178) | |
| ATHN | 03 | 0615 | 0630 | 0620 | S13 | E66 | .929 | 12472 | 8.2 | 15 | -N | 3 | C | | .33 | | | | DE |
| MITK | 03 | 0615 | 0626D | 0618 | S12 | E63 | .907 | 12472 | 8.0 | 110 | 1N | | C | 0618 | 1.13 | 2.60 | | | D |
| 305 MITK | 03 | 2240E | 2316 | 2242 | S22 | E49 | .824 | 12472 | 7.6 | 360 | 1N | | C | 2242 | 1.96 | 3.40 | | | E 3 |
| GRP49306 | 04 | 0235 | 0247 | 0239 | S09 | E45 | .735 | 12472 | 7.9 | 12 | -N | | | | 1.03 | | | | 2 2 2 3 |
| PALE | 04 | 0233E | 0247 | 0240 | S08 | E44 | .720 | 12472 | 7.4 | 140 | -N | 2 | C | | .72 | | | | DE |
| MITK | 04 | 0236 | 0239D | 0238 | S09 | E46 | .746 | 12472 | 7.6 | 30 | -N | | C | 0238 | 1.34 | 2.00 | | | E |
| GRP49308 | 04 | 0610 | 0718 | 0643 | N11 | W37 | .601 | 12461 | 1.5 | 68 | -F | | | | 1.00 | | | | 2 2 2 8 |
| ABST | 04 | 0610 | 0718 | 0643 | N11 | W36 | .587 | 12461 | 1.6 | 68 | 1F | | C | 0643 | 1.71 | 2.10 | | | FGK |
| ARCE | 04 | 0644E | 0645D | | N10 | W37 | .600 | 12461 | 1.5 | 10 | -N | | P | 0644 | .29 | .40 | | | |
| GRP49309 | 04 | 0632 | 0737 | 0654 | N06 | E24 | .405 | 12474 | 6.1 | 65 | --F | | | | 1.28 | | | | 4 3 2 6 |
| CATA | 04 | 0626E | 0631D | 0629 | N04 | E25 | .422 | 12474 | 6.1 | 50 | -N | 3 | P | 0629 | .29 | .32 | | (162) | |
| ISTA | 04 | 0630 | 0730 | | N06 | E21 | .356 | 12474 | 5.8 | 60 | -F | | | | | | | | B |
| ABST | 04 | 0634 | 0744D | 0654 | N07 | E25 | .420 | 12474 | 6.1 | 700 | -F | | P | 0654 | 1.80 | 2.00 | | | FK |
| ARCE | 04 | 0644E | 0724D | | N06 | E26 | .436 | 12474 | 6.2 | 400 | -N | | C | 0645 | .75 | .80 | | | TB |
| GRP49310 | 04 | 0653 | 0714 | 0701 | S14 | E47 | .774 | 12472 | 7.8 | 21 | --F | | | | .52 | | | | 2 2 2 7 |
| CATA | 04 | 0650 | 0700D | 0700 | S14 | E46 | .764 | 12472 | 7.7 | 100 | -N | 3 | P | 0700 | .58 | .89 | | (158) | |
| ABST | 04 | 0656 | 0714 | 0702 | S13 | E47 | .770 | 12472 | 7.8 | 18 | -F | | C | 0702 | .45 | .70 | | | DJ |

# SOLAR FLARES
## Confirmed

AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | |
| GRP49311 | 04 | 0725 | 0743 | 0725 | S14 | E47 | .774 | 12472 | 7.8 | 18 | --F | | | | .83 | | | | 2 2 2 7 |
| ABST | 04 | 0724E | 0736 | 0725 | S13 | E47 | .770 | 12472 | 7.8 | 12D | -F | | P | 0725 | 1.08 | 1.70 | | | E |
| CATA | 04 | 0725 | 0750 | 0725 | S14 | E46 | .764 | 12472 | 7.8 | 25 | -F | 1 | C | 0725 | .58 | .89 | | (145) | |
| GRP49313 | 04 | 0844 | 0918 | 0851 | N06 | E24 | .405 | 12474 | 6.2 | 34 | --F | | | | .29 | | | | 2 2 2 8 |
| MONT | 04 | 0844 | 0918 | 0851 | N07 | E25 | .420 | 12474 | 6.2 | 34 | -N | | C | 0851 | .10 | | | | OH |
| ARCE | 04 | 0845E | 0910D | | N05 | E23 | .389 | 12474 | 6.1 | 25D | -F | | C | 0850 | .48 | .50 | | | |
| 318 MCMA | 04 | 1450 | 1500 | 1453 | S05 | W61 | .882 | 12460 | 31.0 | 10 | -N | | C | 1453 | .52 | 1.10 | | | E M 4 |
| 319 PALE | 04 | 2217 | 2222 | 2219 | N14 | E62 | .878 | 12475 | 9.6 | 5 | --F | 3 | C | | .55 | | | | 3 |
| 321 PALE | 05 | 0155E | 0216 | 0157 | S07 | W64 | .908 | 12460 | 31.3 | 21D | --N | 3 | V | | .31 | | | | DE 2 |
| | 05 | 1906 | 1909 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 05 | 1931 | 2029 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49325 | 05 | 2336 | 0009 | 2344 | N06 | E01 | .017 | 12474 | 6.1 | 33 | -N | | | | 1.19 | | | | 3 3 3 3 |
| CRON | 05 | 2335E | 2350 | | N05 | E01 | .025 | 12474 | 6.1 | 15D | -N | | V | | 1.60 | | | | |
| PALE | 05 | 2336 | 2355 | 2339 | N06 | E01 | .017 | 12474 | 6.1 | 19 | -N | 2 | C | | .72 | | | | DE |
| MANI | 05 | 2339E | 0022 | 2348 | N07 | E00 | .017 | 12474 | 6.0 | 43D | -N | 2 | | 2348 | 1.24 | 1.24 | | | FU |
| PALE | 06 | 0007 | 0015 | 0010 | N06 | E01 | .017 | 12474 | 6.1 | 8 | -F | 2 | C | | .27 | | | | F |
| PALE | 06 | 0017 | 0019D | 0018 | N06 | E01 | .017 | 12474 | 6.1 | 2D | -F | 2 | C | | .27 | | | | F |
| GRP49326 | 05 | 2357 | 0010 | 2359 | N09 | W60 | .862 | 12461 | 1.5 | 13 | --F | | | | .87 | | | | 2 2 2 3 |
| MANI | 05 | 2355 | 2359D | 2358 | N08 | W61 | .871 | 12461 | 1.4 | 4D | -F | 2 | | 2358 | .83 | 1.53 | | | F |
| PALE | 05 | 2358 | 0010 | 0000 | N10 | W59 | .853 | 12461 | 1.6 | 12 | -F | 2 | C | | .91 | | | | F |
| GRP49327 | 06 | 0137 | 0237 | 0151 | N06 | W01 | .017 | 12474 | 6.0 | 60 | -N | | | | 1.77 | | | | 4 3 3 5 |
| CRON | 06 | 0115E | 0140D | | N05 | E00 | .019 | 12474 | 6.1 | 25D | -N | | V | | 1.40 | | | | |
| MITK | 06 | 0129E | 0237D | 0145 | N06 | W02 | .035 | 12474 | 5.9 | 68D | 1N | | C | 0145 | 2.27 | 2.30 | | | |
| MANI | 06 | 0137E | 0212D | 0155 | N08 | W02 | .048 | 12474 | 5.9 | 35D | -N | 2 | | 0155 | 1.96 | 1.96 | | | FU |
| PALE | 06 | 0146 | 0220D | 0153 | N06 | W01 | .017 | 12474 | 6.0 | 34D | -N | 1 | C | | 1.08 | | | | F |
| GRP49328 | 06 | 0356 | 0430 | 0404 | N06 | W03 | .052 | 12474 | 5.9 | 34 | --N | | | | .91 | | | | 2 2 2 6 |
| TEHR | 06 | 0356 | 0430 | 0405 | N06 | W05 | .087 | 12474 | 5.8 | 34 | -N | 4 | C | | .94 | | | | U Z |
| PALE | 06 | 0400E | 0423D | 0402 | N06 | W01 | .017 | 12474 | 6.1 | 23D | -N | 2 | V | | .88 | | | | UDE |
| 9 STATIONS REPORTING GROUP 49331. 2 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP49331 | 06 | 0625 | 0711 | 0631 | N07 | W05 | .088 | 12474 | 5.9 | 46 | 1N | | | | 3.06 | | | | 7 7 7 10 |
| CATA | 06 | 0605E | 0730D | 0625 | N07 | W05 | .088 | 12474 | 5.9 | 85D | 1B | 3 | P | 0625 | 4.05 | 4.07 | | (309) | TZ |
| WEND | 06 | 0624E | 0743 | | N07 | W05 | .088 | 12474 | 5.9 | 79D | 2N | | V | | 7.22 | | | | |
| ATHN | 06 | 0625 | 0659 | 0629 | N07 | W04 | .071 | 12474 | 6.0 | 34 | -N | 2 | C | | 1.32 | | | | F |
| TEHR | 06 | 0627E | 0644 | 0629 | N06 | W06 | .104 | 12474 | 5.8 | 17D | -B | 4 | V | | .99 | | | | U Z |
| BUCA | 06 | 0628E | 0705D | | N07 | W04 | .071 | 12474 | 6.0 | 37D | 1N | | P | 0629 | 2.76 | 2.60 | | | |
| UPIC | 06 | 0630E | 0639 | 0632 | N07 | W06 | .105 | 12474 | 5.8 | 9D | 1N | | P | 0632 | 2.31 | | | | T |
| MONT | 06 | 0633E | 0736 | 0639 | N07 | W04 | .071 | 12474 | 6.0 | 63D | 1N | | C | 0639 | 2.78 | | | | |
| 49331 | 06 | 0642 | 0736 | 0642 | N07 | W05 | .088 | 12474 | 5.9 | 54 | *-B | | | | 1.72 | | | | 2 2 2 11 |
| MANI | 06 | 0642E | 0703D | 0642U | N08 | W05 | .093 | 12474 | 5.9 | 21D | -B | 2 | | 0642 | 1.24 | 1.24 | | | F |
| ARCE | 06 | 0650E | 0736D | | N06 | W05 | .087 | 12474 | 5.9 | 46D | 1B | | C | 0650 | 2.20 | 2.20 | | | TBF |
| 49332 | 06 | 0837 | 0935 | 0849 | N07 | W06 | .105 | 12474 | 5.9 | 58 | *1N | | | | 2.69 | | | | 10 10 10 12 |
| ARCE | 06 | 0828E | 0930D | | N06 | W06 | .104 | 12474 | 5.9 | 62D | 1N | | C | 0855 | 2.33 | 2.30 | | | KF |
| CATA | 06 | 0835 | 1000D | 0846 | N07 | W06 | .105 | 12474 | 5.9 | 85D | 1B | 3 | P | 0846 | 3.76 | 3.78 | | (263) | TZ |
| WEND | 06 | 0837 | 1058 | 0843 | N07 | W05 | .088 | 12474 | 6.0 | 141 | 2B | | P | | 8.25 | | | | |
| ATHN | 06 | 0839 | 0923 | 0843 | N07 | W07 | .122 | 12474 | 5.8 | 44 | -B | 2 | C | | 1.49 | | | | F |
| ZURI | 06 | 0840 | 0944D | 0852 | N07 | W06 | .105 | 12474 | 5.9 | 64D | 1N | | C | 0852 | 2.32 | 2.32 | | | |
| CANR | 06 | 0840 | 0925 | 0858 | N07 | W05 | .088 | 12474 | 6.0 | 45 | 1N | | V | 0858 | 2.80 | 2.80 | | | |
| CANR | 06 | 0840 | 0854D | 0854 | N07 | W04 | .071 | 12474 | 6.1 | 14D | 1N | | V | 0854 | 2.40 | 2.40 | | | |
| MONT | 06 | 0841 | 0936 | 0847 | N07 | W05 | .088 | 12474 | 6.0 | 55 | 1B | | C | 0847 | 2.48 | | | | |
| MEUD | 06 | 0843E | 0900 | | N07 | W06 | .105 | 12474 | 5.9 | 17D | -N | | C | 0845 | 1.03 | 1.00 | | | E |
| UPIC | 06 | 0845E | 0856 | | N08 | W04 | .077 | 12474 | 6.1 | 11D | -F | | P | 0845 | .85 | | | | T |
| TEHR | 06 | 0848E | 0930 | 0852 | N06 | W06 | .104 | 12474 | 5.9 | 42D | -B | 4 | V | | 1.55 | | | | F |
| GRP49333 | 06 | 0847 | 1050 | 1009 | N07 | W05 | .088 | 12474 | 6.0 | 123 | 1N | | | | 5.29 | | | | 5 2 2 13 |
| CRON | 06 | 0847E | 0928D | | N06 | W04 | .069 | 12474 | 6.1 | 41D | -N | | V | | 1.50 | | | | |
| KHAR | 06 | 0852E | 1050D | | N07 | W06 | .105 | 12474 | 5.9 | 118D | 2N | | C | 0923 | 9.08 | 9.00 | | | E |
| UPIC | 06 | 0918E | 0954U | | N07 | W07 | .122 | 12474 | 5.9 | 36D | -N | | P | 0936 | 1.68 | | | | T |
| UPIC | 06 | 0918E | 0954U | | N08 | W02 | .048 | 12474 | 6.2 | 36D | -N | | P | 0936 | .63 | | | | T |
| TEHR | 06 | 0945E | 1010 | 0950 | N06 | W06 | .104 | 12474 | 6.0 | 25D | -N | 3 | V | | .52 | | | | F |
| RAMY | 06 | 1026E | 1108 | 1028U | N06 | W09 | .156 | 12474 | 5.8 | 42D | -F | 3 | C | | 1.03 | | | | F |

# SOLAR FLARES
## Confirmed

### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | CONF. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | |
| 18 STATIONS REPORTING GROUP 49335. 3 STATIONS OBSERVING AND NOT REPORTING. | | | | | | | | | | | | | | | | | | | |
| GRP49335 | 06 | 1402 | 1430 | 1412 | N07 | W09 | .156 | 12474 | 5.9 | 28 | -N | | | | 1.37 | | | | 6 6 5 12 |
| WEND | 06 | 1330E | 1430D | | N07 | W11 | .190 | 12474 | 5.7 | 60D | 1F | | V | | 3.09 | | | | |
| TEHR | 06 | 1358E | 1430 | 1415 | N06 | W06 | .104 | 12474 | 6.1 | 32D | -N | 4 | V | | .41 | | | | F |
| RAMY | 06 | 1403 | 1434 | 1408 | N06 | W10 | .173 | 12474 | 5.8 | 31 | -N | 3 | C | | 1.49 | | | | F |
| HUAN | 06 | 1405 | 1427 | 1414 | N06 | W09 | .156 | 12474 | 5.9 | 22 | 1N | 2 | C | 1414 | | | | | E |
| UPIC | 06 | 1408 | 1428 | 1414 | N08 | W11 | .192 | 12474 | 5.8 | 20 | -N | | P | 1414 | .85 | | | | T |
| UPIC | 06 | 1408 | 1439U | | N08 | W08 | .142 | 12474 | 6.0 | 31D | -F | | P | 1413 | .42 | | | | EKT |
| ATHN | 06 | 1409E | 1432 | 1411 | N07 | W09 | .156 | 12474 | 5.9 | 23D | -N | 2 | C | | .99 | | | | F H |
| 49335 | 06 | 1411 | 1442 | 1423 | N07 | W08 | .139 | 12474 | 6.0 | 31 | *-N | | | | 2.28 | | | | 4 2 2 11 |
| KHAR | 06 | 1141E | 1212D | | N07 | W07 | .122 | 12474 | 6.0 | 31D | 2F | | C | 1145 | 7.37 | 7.30 | | | BEH |
| MCMA | 06 | 1150E | 1449 | | N06 | W09 | .156 | 12474 | 5.8 | 179D | -N | | C | 1201 | 1.03 | 1.00 | | | ELK |
| CATA | 06 | 1405 | 1455 | 1425 | N07 | W09 | .156 | 12474 | 5.9 | 50 | 1N | 3 | C | 1425 | 3.76 | 3.81 | | (170) | TZ |
| CANR | 06 | 1416 | 1429 | 1421 | N07 | W07 | .122 | 12474 | 6.1 | 13 | -N | | V | 1421 | .80 | .80 | | | |
| 49335 | 06 | 1436 | 1448 | 1437 | N07 | W07 | .122 | 12474 | 6.1 | 12 | *-N | | | | .42 | | | | 2 2 2 9 |
| HUAN | 06 | 1436 | 1450 | 1437 | N07 | W06 | .105 | 12474 | 6.2 | 14 | -N | 1 | C | 1437 | .41 | .42 | | | E |
| UPIC | 06 | 1436 | 1446 | | N07 | W07 | .122 | 12474 | 6.1 | 10 | -N | | P | 1439 | .42 | | | | T |
| GRP49337 | 06 | 1619 | 1640 | 1624 | N07 | W10 | .173 | 12474 | 5.9 | 21 | -F | | | | 1.76 | | | | 4 4 3 7 |
| ARCE | 06 | 1600E | 1630D | | N10 | W06 | .124 | 12474 | 6.2 | 30D | -N | | C | 1627 | .75 | .80 | | | E |
| HUAN | 06 | 1619 | 1627 | 1623 | N06 | W09 | .156 | 12474 | 6.0 | 8 | -F | 1 | C | 1623 | | | | | |
| MCMA | 06 | 1619 | 1654D | 1624 | N06 | W11 | .190 | 12474 | 5.9 | 35D | -N | | C | 1624 | 1.44 | 1.50 | | | EH |
| WEND | 06 | 1620E | 1650D | | N07 | W13 | .224 | 12474 | 5.7 | 30D | 1F | | V | | 3.09 | | | | |
| GRP49338 | 06 | 1717 | 1753 | 1724 | N06 | W10 | .173 | 12474 | 6.0 | 36 | -N | | | | 1.27 | | | | 3 3 2 5 |
| MCMA | 06 | 1713E | 1809D | | N06 | W12 | .207 | 12474 | 5.8 | 56D | -N | | P | 1719 | 1.29 | 1.30 | | | EL |
| PALE | 06 | 1719E | 1746 | 1724U | N05 | W09 | .157 | 12474 | 6.0 | 27D | -N | 2 | V | | 1.24 | | | | OE |
| HUAN | 06 | 1720 | 1744 | 1724 | N07 | W09 | .156 | 12474 | 6.0 | 24 | -N | 1 | C | 1724 | | | | | H |
| 339 PALE | 06 | 1856E | 1906 | 1856U | N08 | W10 | .175 | 12474 | 6.0 | 10D | --N | 2 | C | | .36 | | | | OE 2 |
| GRP49340 | 06 | 1933 | 1957 | 1944 | N07 | W12 | .207 | 12474 | 5.9 | 24 | --N | | | | .54 | | | | 2 2 2 2 |
| MCMA | 06 | 1933E | 1953D | | N07 | W13 | .224 | 12474 | 5.8 | 20D | -N | | P | 1938 | .62 | .60 | | | E |
| PALE | 06 | 1933 | 1942 | 1934 | N06 | W10 | .173 | 12474 | 6.1 | 9 | -F | 2 | V | | .26 | | | | OE |
| PALE | 06 | 1937 | 1957 | 1944 | N08 | W11 | .192 | 12474 | 6.0 | 20 | -N | 2 | C | | .45 | | | | OE |
| GRP49341 | 06 | 2240 | 2254 | 2244 | N07 | W14 | .241 | 12474 | 5.9 | 14 | --F | | | | .54 | | | | 2 2 2 3 |
| PALE | 06 | 2240E | 2252 | 2243U | N06 | W15 | .257 | 12474 | 5.8 | 12D | -F | 2 | V | | .46 | | | | F |
| MANI | 06 | 2245E | 2255D | 2245U | N08 | W13 | .226 | 12474 | 6.0 | 10D | -N | 1 | | 2245 | .62 | .63 | | | F |
| GRP49342 | 06 | 2306 | 2319 | 2307 | N07 | W11 | .190 | 12474 | 6.1 | 13 | --N | | | | .44 | | | | 2 2 2 4 |
| MANI | 06 | 2305E | 2310 | 2305U | N08 | W10 | .175 | 12474 | 6.2 | 5D | -N | 1 | | 2305 | .41 | .42 | | | F |
| PALE | 06 | 2306 | 2328 | 2317 | N06 | W12 | .207 | 12474 | 6.1 | 22 | -N | 3 | V | | .46 | | | | OE |
| PALE | 06 | 2306 | 2328 | 2309 | N06 | W12 | .207 | 12474 | 6.1 | 22 | -F | 3 | V | | .62 | | | | OE |
| GRP49345 | 07 | 0034 | 0050 | 0037 | N07 | W13 | .224 | 12474 | 6.0 | 16 | --N | | | | .63 | | | | 3 3 3 5 |
| MANI | 07 | 0031 | 0051 | 0035U | N08 | W12 | .209 | 12474 | 6.1 | 20 | -F | 2 | | 0035 | .83 | .84 | | | FU |
| PALE | 07 | 0034 | 0045 | 0037 | N07 | W13 | .224 | 12474 | 6.0 | 11 | -N | 1 | C | | .55 | | | | OE |
| CRON | 07 | 0037 | 0055 | 0040 | N06 | W15 | .257 | 12474 | 5.9 | 18 | -N | | V | 0040 | .50 | | | | |
| GRP49348 | 07 | 0730 | 0741 | 0733 | N07 | W17 | .291 | 12474 | 6.0 | 11 | --N | | | | .44 | | | | 4 4 4 8 |
| BUCA | 07 | 0730E | 0742D | | N08 | W15 | .259 | 12474 | 6.2 | 12D | -F | | C | 0732 | 1.10 | 1.10 | | | E |
| TEHR | 07 | 0730 | 0741 | 0733 | N03 | W17 | .296 | 12474 | 6.0 | 11 | -N | 3 | V | | .25 | | | | DE |
| CRON | 07 | 0730E | 0741 | | N07 | W18 | .307 | 12474 | 6.0 | 11D | -N | | V | | .30 | | | | |
| MONT | 07 | 0731 | 0741 | 0733 | N08 | W17 | .292 | 12474 | 6.0 | 10 | -N | | C | 0733 | .10 | | | | D |
| GRP49351 | 07 | 1134 | 1215 | 1147 | N06 | W23 | .389 | 12474 | 5.8 | 41 | --F | | | | .49 | | | | 5 3 3 12 |
| MONT | 07 | 0958 | 1010 | 1003 | N05 | W19 | .325 | 12474 | 6.0 | 12 | -F | | C | 1003 | .10 | | | | |
| KHAR | 07 | 1002 | 1203D | 1027 | N07 | W21 | .356 | 12474 | 5.8 | 121D | 2F | | C | 1027 | 4.88 | 5.20 | | | EH |
| ARCE | 07 | 1130E | 1200D | | N06 | W24 | .405 | 12474 | 5.7 | 30D | -F | | C | 1145 | .33 | .40 | | | H |
| CANR | 07 | 1132 | 1215 | 1150 | N07 | W21 | .356 | 12474 | 5.9 | 43 | -F | | V | | .50 | | | | |
| UPIC | 07 | 1141 | 1157U | 1144U | N06 | W23 | .389 | 12474 | 5.8 | 16D | -F | | P | 1144 | .63 | | | | K |
| GRP49352 | 07 | 1307 | 1333 | 1314 | N07 | W23 | .388 | 12474 | 5.8 | 26 | -N | | | | 1.13 | | | | 4 4 4 8 |
| CATA | 07 | 1245 | 1335 | 1310 | N07 | W24 | .404 | 12474 | 5.7 | 50 | -B | 3 | C | 1310 | 1.44 | 1.58 | | (214) | T |
| CANR | 07 | 1259 | 1316D | 1316 | N07 | W21 | .356 | 12474 | 6.0 | 17D | -N | | V | 1316 | .80 | .80 | | | |
| MCMA | 07 | 1310E | 1324D | 1313 | N06 | W24 | .405 | 12474 | 5.7 | 14D | -N | | C | 1313 | .83 | .90 | | | E |
| HUAN | 07 | 1311 | 1330 | 1315 | N06 | W23 | .389 | 12474 | 5.8 | 19 | -N | 1 | C | 1315 | 1.44 | 1.57 | | | ET |
| GRP49353 | 07 | 1425 | 1450 | 1426 | N07 | W24 | .404 | 12474 | 5.8 | 25 | --N | | | | .80 | | | | 3 2 2 8 |
| ARCE | 07 | 1354 | 1450D | 1359 | N07 | W26 | .436 | 12474 | 5.6 | 56D | -N | | C | 1359 | .75 | .80 | | | |
| HUAN | 07 | 1425 | 1437 | 1427U | N06 | W23 | .389 | 12474 | 5.9 | 12 | -F | 1 | C | 1427 | .72 | .78 | | | |
| CATA | 07 | 1425 | 1430D | 1425 | N07 | W24 | .404 | 12474 | 5.8 | 5D | -B | 3 | P | 1425 | .87 | .95 | | (209) | T |
| GRP49355 | 07 | 1700 | 1702 | 1701 | N06 | W28 | .467 | 12474 | 5.6 | 2 | --F | | | | .54 | | | | 2 2 2 5 |
| PALE | 07 | 1659E | 1702D | 1701U | N06 | W28 | .467 | 12474 | 5.6 | 3D | -F | 2 | V | | .67 | | | | OE |
| HUAN | 07 | 1700 | 1702 | 1701 | N06 | W27 | .452 | 12474 | 5.7 | 2 | -F | 1 | C | 1701 | .41 | .47 | | | |

# SOLAR FLARES
## Confirmed

AUGUST 1973

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IM-POR-TANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP49358 | 07 | 1837 | 1853 | 1847 | N06 | W24 | .405 | 12474 | 6.0 | 16 | -N | | | | 1.19 | | | | 3 3 2 3 |
| PALE | 07 | 1837 | 1859 | 1848 | N06 | W23 | .389 | 12474 | 6.1 | 22 | -N | 3 | V | | 1.34 | | | | DE |
| PALE | 07 | 1837 | 1859 | 1840 | N06 | W23 | .389 | 12474 | 6.1 | 22 | -F | 3 | V | | .72 | | | | DE |
| HUAN | 07 | 1837 | 1842 | 1838 | N06 | W23 | .389 | 12474 | 6.1 | 5 | -F | 1 | C | 1838 | .46 | .50 | | | |
| CANR | 07 | 1838 | 1846D | 1846 | N06 | W25 | .420 | 12474 | 5.9 | 8D | -N | | V | | | | | | |
| PALE | 07 | 1845 | 1854 | 1847 | N09 | W23 | .390 | 12474 | 6.1 | 9 | -N | 2 | C | | .63 | | | | DE H |
| HUAN | 07 | 1845 | 1851 | 1846 | N08 | W23 | .389 | 12474 | 6.1 | 6 | -N | 1 | C | 1846 | 1.03 | 1.12 | | | H |
| 359 PALE | 07 | 1914E | 1933 | 1916U | N06 | W27 | .452 | 12474 | 5.8 | 19D | --F | 3 | V | | .52 | | | | DE 2 |
| 360 PALE | 07 | 2021 | 2026 | 2023 | N06 | W24 | .405 | 12474 | 6.0 | 5 | --F | 3 | V | | .26 | | | | 2 |
| 361 PALE | 07 | 2136E | 2143 | 2137 | S08 | E45 | .732 | 12476 | 11.3 | 7D | --F | 2 | C | | .45 | | | | F 3 |
| 362 PALE | 07 | 2307 | 2328 | 2308 | N07 | W29 | .482 | 12474 | 5.8 | 21 | --F | 3 | V | | .36 | | | | F 3 |
| 363 PALE | 07 | 2315 | 2331 | 2326 | N07 | W29 | .482 | 12474 | 5.8 | 16 | --F | 2 | C | | .36 | | | | 3 |
| GRP49366 | 08 | 0550 | 0646 | 0633 | N06 | W31 | .512 | 12474 | 5.9 | 56 | --F | | | | .63 | | | | 3 3 3 8 |
| ABST | 08 | 0550E | 0654 | 0609 | N08 | W35 | .570 | 12474 | 5.6 | 64D | -F | | P | 0609 | 1.18 | 1.40 | | | FJ |
| ABST | 08 | 0604 | 0654 | 0633 | N08 | W30 | .497 | 12474 | 6.0 | 50 | -F | | C | 0633 | .99 | 1.10 | | | FJ |
| TEHR | 08 | 0631 | 0644 | 0633 | N05 | W30 | .498 | 12474 | 6.0 | 13 | -N | 4 | C | | .28 | | | | DE |
| UPIC | 08 | 0636E | 0641 | | N06 | W31 | .512 | 12474 | 5.9 | 5D | -F | | P | 0639 | .63 | | | | |
| GRP49368 | 08 | 0921 | 0929 | 0922 | N08 | W37 | .598 | 12474 | 5.6 | 8 | --N | | | | .20 | | | | 2 2 2 8 |
| CATA | 08 | 0920 | 0930 | 0920 | N09 | W37 | .598 | 12474 | 5.6 | 10 | -N | 3 | C | 0920 | .29 | .36 | | (162) | |
| MONT | 08 | 0922 | 0928 | 0924 | N06 | W36 | .585 | 12474 | 5.7 | 6 | -N | | C | 0924 | .10 | | | | D |
| GRP49369 | 08 | 1003 | 1019 | 1005 | N06 | W32 | .527 | 12474 | 6.0 | 16 | --N | | | | .58 | | | | 5 5 5 9 |
| MONT | 08 | 1001 | 1016 | 1003 | N05 | W32 | .528 | 12474 | 6.0 | 15 | -N | | C | 1003 | .52 | | | | DH |
| TEHR | 08 | 1002 | 1023 | 1005 | N04 | W29 | .484 | 12474 | 6.2 | 21 | -N | 4 | C | | .36 | | | | DE |
| CANR | 08 | 1003 | 1015 | 1005 | N07 | W33 | .541 | 12474 | 5.9 | 12 | -F | | V | 1005 | .50 | .60 | | | |
| CATA | 08 | 1005 | 1020 | 1005 | N09 | W32 | .527 | 12474 | 6.0 | 15 | -N | 3 | C | 1005 | .87 | 1.02 | | (170) | |
| UPIC | 08 | 1008E | 1021 | | N06 | W33 | .542 | 12474 | 5.9 | 13D | -F | | P | 1008 | .63 | | | | |
| GRP49370 | 08 | 1706 | 1724 | 1709 | N06 | W36 | .585 | 12474 | 6.0 | 18 | -N | | | | .85 | | | | 3 3 3 5 |
| PALE | 08 | 1705 | 1710D | 1709 | N08 | W36 | .584 | 12474 | 6.0 | 5D | -N | 2 | C | | .72 | | | | |
| CANR | 08 | 1706 | 1724 | 1708 | N05 | W36 | .586 | 12474 | 6.0 | 18 | -F | | V | | 1.00 | | | | |
| MCMA | 08 | 1709E | 1709D | | N06 | W36 | .585 | 12474 | 6.0 | | -N | | P | 1709 | .83 | 1.00 | | | E |
| | 08 | 1959 | 2003 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 2010 | 2018 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 2200 | 2217 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 2243 | 2245 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 08 | 2248 | 2251 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49380 | 09 | 0940 | 1004 | 0943 | N15 | W76 | .965 | 12471 | 3.7 | 24 | -N | | | | .45 | | | | 5 5 4 8 |
| MONT | 09 | 0939 | 0955 | 0942 | N15 | W80 | .981 | 12471 | 3.4 | 16 | -N | | C | 0942 | .31 | | | | D |
| TEHR | 09 | 0940 | 0959 | 0944 | N13 | W73 | .951 | 12471 | 3.9 | 19 | -N | 3 | C | | .21 | | | | DE |
| CATA | 09 | 0940 | 1005 | 0940 | N18 | W79 | .977 | 12471 | 3.5 | 25 | 1N | 3 | C | 0940 | .58 | | | (162) | T |
| ISTA | 09 | 0941 | 1008 | | N16 | W74 | .956 | 12471 | 3.9 | 27 | -F | | | | | | | | |
| CANR | 09 | 0942 | 1012 | 0946 | N13 | W74 | .957 | 12471 | 3.9 | 30 | -N | | V | | .70 | | | | |
| GRP49381 | 09 | 1025 | 1042 | 1033 | N14 | W76 | .966 | 12471 | 3.7 | 17 | --N | | | | .19 | | | | 2 2 2 7 |
| MONT | 09 | 1024 | 1045D | 1036 | N14 | W79 | .978 | 12471 | 3.5 | 21D | -N | | C | 1045 | .21 | | | | D |
| TEHR | 09 | 1026 | 1039 | 1030 | N13 | W73 | .951 | 12471 | 4.0 | 13 | -N | 3 | C | | .17 | | | | F |
| GRP49383 | 09 | 1152 | 1206 | 1157 | N08 | W47 | .727 | 12474 | 6.0 | 14 | --F | | | | .42 | | | | 4 4 4 10 |
| CATA | 09 | 1150 | 1205 | 1155 | N11 | W46 | .715 | 12474 | 6.0 | 15 | -N | 3 | C | 1155 | .58 | .82 | | (195) | |
| MEUD | 09 | 1151 | 1203 | 1155 | N07 | W48 | .739 | 12474 | 5.9 | 12 | -F | | C | 1155 | .41 | .60 | | | D |
| ATHN | 09 | 1152 | 1204 | 1155 | N08 | W46 | .715 | 12474 | 6.0 | 12 | -F | 1 | C | | .33 | | | | DE |
| RAMY | 09 | 1154 | 1156D | 1156 | N07 | W45 | .703 | 12474 | 6.1 | 2D | -N | 2 | C | | .31 | | | | DE |
| RAMY | 09 | 1159 | 1213D | 1201 | N07 | W47 | .727 | 12474 | 6.0 | 14D | -N | 3 | V | | .34 | | | | DE |
| GRP49385 | 09 | 1415 | 1427 | 1418 | N08 | W48 | .739 | 12474 | 6.0 | 12 | --F | | | | .35 | | | | 6 6 6 9 |
| ATHN | 09 | 1414 | 1425 | 1418 | N06 | W48 | .740 | 12474 | 6.0 | 11 | -F | 2 | C | | .33 | | | | DE |
| RAMY | 09 | 1414 | 1428 | 1415U | N07 | W47 | .727 | 12474 | 6.1 | 14 | -F | 3 | C | | .46 | | | | DE |
| CATA | 09 | 1415 | 1430 | 1420 | N11 | W47 | .727 | 12474 | 6.1 | 15 | -N | 3 | C | 1420 | .29 | .42 | | (170) | |
| MEUD | 09 | 1415 | 1425 | 1418 | N07 | W49 | .751 | 12474 | 5.9 | 10 | -F | | C | 1418 | .41 | .60 | | | D |
| HUAN | 09 | 1415 | 1426 | 1417 | N08 | W47 | .727 | 12474 | 6.1 | 11 | -F | 1 | C | 1417 | .21 | .30 | | | |
| CANR | 09 | 1415 | 1425 | 1418 | N06 | W49 | .751 | 12474 | 5.9 | 10 | -N | | V | 1418 | .40 | .60 | | | |

# SOLAR FLARES
## Confirmed

### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | |
| GRP49387 | 09 | 1551 | 1600 | 1553 | N08 | W49 | .750 | 12474 | 6.0 | 9 | --N | | V | | .45 | | | | 7 7 7 9 |
| CANR | 09 | 1550 | 1600 | 1553 | N06 | W50 | .763 | 12474 | 5.9 | 10 | -N | | V | 1553 | .40 | .60 | | | |
| CATA | 09 | 1550 | 1600 | 1550 | N11 | W48 | .739 | 12474 | 6.1 | 10 | -B | 3 | C | 1550 | .58 | .86 | | (245) | D |
| HCMA | 09 | 1551 | 1559 | 1555 | N09 | W49 | .750 | 12474 | 6.0 | 8 | -N | | C | 1555 | .41 | .60 | | | D |
| ATHN | 09 | 1551 | 1602 | 1555 | N08 | W49 | .750 | 12474 | 6.0 | 11 | -N | 2 | C | | .50 | | | | DE |
| MEUD | 09 | 1551 | 1559 | 1554 | N07 | W50 | .762 | 12474 | 5.9 | 8 | -N | | C | 1554 | .52 | .80 | | | D |
| ARCE | 09 | 1551 | 1559 | 1553 | N08 | W50 | .762 | 12474 | 5.9 | 8 | -B | | C | 1553 | .36 | .50 | | | D |
| HUAN | 09 | 1551 | 1559 | 1554 | N07 | W49 | .751 | 12474 | 6.0 | 8 | -N | 2 | C | 1554 | .36 | .53 | | | D |
| GRP49388 | 09 | 2140 | 2153 | 2148 | N08 | W52 | .784 | 12474 | 6.0 | 13 | --F | | | | .24 | | | | 2 2 2 4 |
| HUAN | 09 | 2140 | 2150 | 2147U | N07 | W52 | .784 | 12474 | 6.0 | 10 | -F | 1 | C | 2147 | .21 | .32 | | | D |
| PALE | 09 | 2141E | 2156D | 2148U | N09 | W51 | .773 | 12474 | 6.1 | 150 | -N | 2 | C | | .27 | | | | F |
| 389 MANI | 09 | 2337E | 2347 | 2337U | N09 | W52 | .783 | 12474 | 6.1 | 100 | --N | 1 | | 2337 | .41 | .66 | | | 2 |
| GRP49390 | 09 | 2337 | 2350 | 2344 | S07 | W34 | .594 | 12472 | 7.4 | 13 | --F | | | | .88 | | | | 2 2 2 4 |
| MANI | 09 | 2337E | 2350 | 2339U | S05 | W33 | .571 | 12472 | 7.5 | 130 | -N | 1 | | 2339 | .62 | .76 | | | |
| PALE | 09 | 2347E | 2348D | 2348U | S08 | W34 | .599 | 12472 | 7.4 | 10 | -F | 2 | V | | 1.13 | | | | F |
| 391 MANI | 09 | 2359 | 0008 | 0001 | N09 | W53 | .794 | 12474 | 6.0 | 9 | --N | 1 | | 0001 | .31 | .50 | | | 2 |
| GRP49392 | 10 | 0014 | 0037 | 0022 | N08 | W54 | .805 | 12474 | 6.0 | 23 | -N | | | | 1.17 | | | | 3 3 3 3 |
| MITK | 10 | 0014 | 0034 | 0016 | N07 | W55 | .815 | 12474 | 5.9 | 20 | 1N | | C | 0016 | 1.34 | 2.30 | | | |
| MANI | 10 | 0018E | 0037 | 0021 | N10 | W53 | .794 | 12474 | 6.0 | 190 | -N | 1 | | 0021 | .93 | 1.49 | | | H |
| PALE | 10 | 0020E | 0039D | 0029U | N07 | W53 | .795 | 12474 | 6.0 | 110 | -N | 2 | V | | 1.24 | | | | F |
| 393 MANI | 10 | 0151 | 0155 | 0152 | N08 | W55 | .815 | 12474 | 6.0 | 4 | -N | 2 | | 0152 | .62 | 1.03 | | | 3 |
| | 10 | 2139 | 2140 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2153 | 2156 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2202 | 2211 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2216 | 2225 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 10 | 2232 | 2238 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 11 | 2122 | 2131 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 16 | 2017 | 2048 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 16 | 2056 | 2123 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 16 | 2146 | 2228 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49404 | 18 | 1546 | 1558 | 1548 | N16 | E68 | .921 | 12488 | 23.8 | 12 | --F | | | | .39 | | | | 2 2 2 6 |
| ATHN | 18 | 1544 | 1608 | 1547 | N15 | E69 | .927 | 12488 | 23.8 | 16 | -F | 3 | C | | .50 | | | | DE |
| RAMY | 18 | 1547 | 1556 | 1548 | N17 | E67 | .914 | 12488 | 23.7 | 9 | -F | 4 | C | | .28 | | | | DE |
| | 18 | 2114 | 2116 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 18 | 2214 | 2245 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 18 | 2254 | 2258 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 19 | 1935 | 2105 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 19 | 2111 | 2114 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 19 | 2119 | 2124 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 1839 | 1845 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 1847 | 1856 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 1939 | 1947 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2008 | 2043 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2052 | 2053 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2055 | 2104 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2230 | 2243 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 20 | 2250 | 2257 | NO FLARE PATROL | | | | | | | | | | | | | | | |

# SOLAR FLARES
## Confirmed

### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | NOAA PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | |
| GRP49418 | 21 | 1344 | 1433 | 1407 | N12 | E90 | 1.000 | 12497 | 28.3 | 49 | 1F | | | | 3.89 | | | | 2 2 1 8 |
| MEUD | 21 | 1344E | 1430 | | N10 | E90 | 1.000 | 12497 | 28.3 | 460 | 2N | | C | 1359 | 3.09 | | | | |
| MCNA | 21 | 1405E | 1435 | 1407 | N14 | E90 | 1.000 | 12497 | 28.3 | 300 | 1F | | P | 1407 | | | | | A |
| | 22 | 2143 | 2151 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 413 CATA | 24 | 0710 | 0735 | 0715 | N12 | W21 | .363 | 12488 | 22.7 | 25 | --F | 3 | C | 0715 | .87 | .93 | | (138) | 4 |
| | 24 | 1950 | 1955 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 24 | 2003 | 2008 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 24 | 2019 | 2125 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49417 | 25 | 1312 | 1326 | 1316 | N12 | W27 | .455 | 12488 | 23.9 | 14 | --F | | | | .99 | | | | 3 3 3 9 |
| ATHN | 25 | 1310E | 1322 | 1311 | N10 | W28 | .467 | 12488 | 23.4 | 120 | -N | 3 | C | | .50 | | | | DE |
| UPIO | 25 | 1313E | 1317U | | N12 | W29 | .485 | 12488 | 23.4 | 40 | 1F | | P | 1313 | 2.10 | | | | F |
| UPIO | 25 | 1313E | 1317U | | N14 | W25 | .431 | 12488 | 23.7 | 40 | -F | | P | 1313 | .63 | | | | |
| RAMY | 25 | 1314 | 1329 | 1316 | N12 | W27 | .455 | 12488 | 23.9 | 15 | -F | 3 | C | | .37 | | | | F |
| GRP49418 | 25 | 1742 | 1803 | 1748 | N12 | W30 | .500 | 12488 | 23.9 | 21 | --N | | | | .57 | | | | 3 3 3 5 |
| HUAN | 25 | 1742 | 1751D | 1747 | N12 | W29 | .485 | 12488 | 23.6 | 9D | -F | 1 | P | 1747 | .46 | .54 | | | E |
| MCNA | 25 | 1743E | 1758D | 1746 | N12 | W32 | .529 | 12488 | 23.3 | 150 | -N | | C | 1746 | .62 | .78 | | | E |
| PALE | 25 | 1750E | 1803 | 1751 | N11 | W30 | .498 | 12488 | 23.5 | 130 | -N | 2 | C | | .63 | | | | DE |
| | 26 | 1902 | 1905 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 26 | 1911 | 1919 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 26 | 1925 | 2006 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 26 | 2202 | 2243 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 26 | 2246 | 2251 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| GRP49421 | 27 | 0917 | 0957 | 0928 | N04 | E20 | .344 | 12503 | 28.9 | 40 | -N | | | | .97 | | | | 3 3 3 7 |
| KHAR | 27 | 0909E | 0927D | | N03 | E26 | .442 | 12503 | 29.3 | 18D | 1N | | C | 0918 | 1.96 | 2.10 | | | D |
| KHAR | 27 | 0909E | 0954D | 0927 | N03 | E19 | .331 | 12503 | 28.8 | 45D | -N | | C | 0927 | 1.70 | 1.80 | | | D |
| CATA | 27 | 0920 | 1020 | 0925 | N04 | E20 | .344 | 12503 | 28.9 | 60 | -N | 3 | C | 0925 | .87 | .92 | | (158) | |
| KHAR | 27 | 0921E | 0927D | | N06 | E20 | .340 | 12503 | 28.9 | 6D | -N | | C | 0924 | 1.13 | 1.20 | | | D |
| TEHR | 27 | 0923 | 0937 | 0931 | N03 | E20 | .347 | 12503 | 28.9 | 14 | -F | 3 | C | | .08 | | | | DE |
| GRP49422 | 27 | 1040 | 1111 | 1049 | N03 | E20 | .347 | 12503 | 28.9 | 31 | --F | | | | .55 | | | | 3 3 3 6 |
| CATA | 27 | 1040 | 1105D | 1050 | N03 | E19 | .331 | 12503 | 28.9 | 25D | -N | 3 | P | 1050 | .58 | .61 | | (162) | |
| TEHR | 27 | 1040 | 1127 | 1047 | N03 | E20 | .347 | 12503 | 28.9 | 47 | -F | 2 | C | | .28 | | | | DE |
| CANR | 27 | 1040 | 1100 | | N04 | E21 | .360 | 12503 | 29.0 | 20 | -F | | V | | .80 | | | | |
| GRP49426 | 27 | 1658 | 1727 | 1711 | N12 | W60 | .860 | 12488 | 23.2 | 29 | -N | | | | .63 | | | | 2 2 2 4 |
| RAMY | 27 | 1658E | 1729 | 1715 | N11 | W59 | .851 | 12488 | 23.3 | 31D | -N | 4 | C | | .74 | | | | DE |
| RAMY | 27 | 1658E | 1729 | 1706 | N11 | W59 | .851 | 12488 | 23.3 | 31D | -N | 4 | C | | .56 | | | | DE |
| MCNA | 27 | 1700E | 1725 | 1707 | N12 | W60 | .860 | 12488 | 23.2 | 25D | -N | | C | 1707 | .52 | 1.00 | | | E |
| | 27 | 2041 | 2059 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 427 HUAN | 27 | 2102 | 2104D | | N05 | E22 | .374 | 12503 | 29.5 | 2D | --F | 1 | P | 2102 | .21 | .22 | | | D 2 |
| | 27 | 2104 | 2117 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 2123 | 2157 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 27 | 2158 | 2230 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| 428 MITK | 28 | 0322 | 0345 | 0328 | N03 | E16 | .283 | 12503 | 29.3 | 23 | --F | | C | 0328 | .93 | 1.00 | | | E 3 |
| GRP49431 | 29 | 0947 | 0958 | 0950 | N13 | W85 | .994 | 12488 | 23.0 | 11 | --F | | | | .22 | | | | 2 2 2 5 |
| MONT | 29 | 0947 | 0955 | 0950 | N13 | W83 | .989 | 12488 | 23.2 | 8 | -F | | C | 0950 | .10 | | | | |
| ATHN | 29 | 0948E | 1001 | 0950 | N13 | W87 | .997 | 12488 | 22.9 | 13D | -F | 3 | V | | .33 | | | | DE |
| GRP49433 | 29 | 1650 | 1704 | 1652 | S14 | E75 | .976 | 12507 | 4.3 | 14 | --F | | | | .20 | | | | 2 2 2 5 |
| RAMY | 29 | 1650 | 1707 | 1652 | S14 | E75 | .976 | 12507 | 4.3 | 17 | -F | 3 | C | | .19 | | | | DE |
| HUAN | 29 | 1658E | 1700 | | S14 | E74 | .972 | 12507 | 4.3 | 2D | -F | 1 | P | 1659 | .21 | | | | D |
| GRP49434 | 29 | 1723 | 1759 | 1728 | S14 | E74 | .972 | 12507 | 4.3 | 36 | --F | | | | .32 | | | | 2 2 2 4 |
| CANR | 29 | 1723 | 1800 | 1727 | S13 | E75 | .975 | 12507 | 4.3 | 37 | -F | | V | | .40 | | | | |
| RAMY | 29 | 1726E | 1758 | 1729 | S14 | E73 | .968 | 12507 | 4.2 | 32D | -F | 3 | C | | .23 | | | | DE |
| | 29 | 1858 | 1905 | NO FLARE PATROL | | | | | | | | | | | | | | | |
| | 29 | 1908 | 1953 | NO FLARE PATROL | | | | | | | | | | | | | | | |

# SOLAR FLARES
## Confirmed

### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION MIN. | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS | | | | | REMARKS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | | | | | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hg | MAX. INT. % | | | | |
| | 29 | 1956 | 2111 | NO FLARE PATROL | | | | | | | | | | | | | | | | | | |
| 437 MANI | 29 | 2230E | 2237D | 2230U | N02 | W08 | .165 | 12503 | 29.3 | 7D | --N | 1 | | 2230 | .31 | .32 | | | | | | 2 |
| GRP49439 | 30 | 0857 | 0915 | 0902 | N04 | W18 | .312 | 12503 | 29.0 | 18 | --F | | | | .20 | | | | 2 | 2 | 2 | 7 |
| MONT | 30 | 0854 | 0914 | 0858 | N04 | W17 | .296 | 12503 | 29.1 | 20 | -F | | C | 0858 | .10 | | | | | | | |
| CATA | 30 | 0900 | 0915D | 0905 | N04 | W18 | .312 | 12503 | 29.0 | 15D | -N | 1 | P | 0905 | .29 | .30 | | (155) | | | | |
| GRP49443 | 30 | 1243 | 1301 | 1246 | S13 | E59 | .883 | 12507 | 4.0 | 18 | --F | | | | .40 | | | | 2 | 2 | 2 | 4 |
| ATHN | 30 | 1241 | 1254 | 1245 | S13 | E57 | .867 | 12507 | 3.8 | 13 | -N | 3 | C | | .33 | | | | DE | | | |
| RAMY | 30 | 1245 | 1308 | 1247 | S12 | E61 | .896 | 12507 | 4.1 | 23 | -F | 4 | C | | .46 | | | | DE | | | |
| GRP49444 | 30 | 1934 | 1955 | 1938 | S11 | E55 | .845 | 12507 | 3.9 | 21 | -N | | | | .63 | | | | 3 | 3 | 3 | 3 |
| PALE | 30 | 1934E | 2003 | 1937 | S10 | E55 | .842 | 12507 | 3.9 | 29D | -N | 3 | V | | .77 | | | | DE | | | |
| HUAN | 30 | 1938E | 1940D | | S11 | E55 | .845 | 12507 | 3.9 | 2D | -N | 2 | P | 1938 | .46 | .86 | | | E | | | |
| RAMY | 30 | 1939E | 1947 | 1939U | S11 | E54 | .836 | 12507 | 3.9 | 8D | -N | 3 | C | | .65 | | | | DE | | | |
| 445 PALE | 30 | 1952E | 2013 | 1955U | N02 | W06 | .137 | 12511 | 30.4 | 21D | --F | 3 | V | | .36 | | | | DE | | | 2 |
| 446 PALE | 30 | 2023 | 2027D | 2024 | N15 | E03 | .989 | 12510 | 6.1 | 4D | --N | 3 | V | | .21 | | | | | | | 2 |
| 447 PALE | 30 | 2041E | 2051 | 2043 | N17 | E03 | .988 | 12510 | 6.1 | 10D | --N | 3 | V | | .21 | | | | DE | | | 2 |
| GRP49450 | 30 | 2348 | 0008 | 2354 | S11 | E52 | .818 | 12507 | 3.9 | 20 | -N | | | | 1.06 | | | | 3 | 3 | 3 | 4 |
| PALE | 30 | 2346 | 0011 | 2352 | S12 | E52 | .820 | 12507 | 3.9 | 25 | -N | 2 | V | | 1.24 | | | | F | | | |
| CRON | 30 | 2350 | 0005 | 2353 | S13 | E51 | .814 | 12507 | 3.8 | 15 | -N | | V | | .70 | | | | | | | |
| MANI | 30 | 2355E | 0008D | 2356U | S08 | E52 | .809 | 12507 | 3.9 | 13D | -F | 1 | | 2356 | 1.24 | 2.03 | | | | | | |
| GRP49456 | 31 | 0751 | 0806 | 0758 | S16 | E48 | .797 | 12507 | 3.9 | 15 | -N | | | | .95 | | | | 6 | 6 | 6 | 6 |
| ATHN | 31 | 0750 | 0759D | 0754 | S15 | E48 | .793 | 12507 | 3.9 | 9D | -N | 3 | V | | .83 | | | | DE | | | |
| ABST | 31 | 0751 | 0804 | 0758 | S17 | E51 | .828 | 12507 | 4.2 | 13 | 1N | | C | 0758 | 1.35 | 2.30 | | 72 | D | | | |
| CRON | 31 | 0752E | 0809 | | S15 | E49 | .803 | 12507 | 4.0 | 17D | -N | | V | | .70 | | | | | | | |
| MEUD | 31 | 0754E | 0802 | | S16 | E47 | .788 | 12507 | 3.9 | 8D | -N | | C | 0757 | .52 | .80 | | | CD | | | |
| TEHR | 31 | 0755E | 0807 | 0759 | S16 | E47 | .788 | 12507 | 3.9 | 12D | -N | 4 | V | | .83 | | | | F | | | |
| CATA | 31 | 0800E | 0800D | 0800 | S17 | E47 | .792 | 12507 | 3.9 | | 1N | 3 | P | 0800 | 1.44 | 2.37 | | (170) | | | | |
| GRP49458 | 31 | 1350 | 1407 | 1352 | S12 | E44 | .740 | 12507 | 3.9 | 17 | --N | | | | .64 | | | | 3 | 3 | 3 | 6 |
| RAMY | 31 | 1349 | 1405 | 1351 | S11 | E46 | .758 | 12507 | 4.0 | 16 | -N | 4 | C | | .46 | | | | DE | | | |
| CATA | 31 | 1350 | 1350D | 1350 | S14 | E43 | .739 | 12507 | 3.8 | | -N | 3 | P | 1350 | .87 | 1.29 | | (195) | | | | |
| CANR | 31 | 1350 | 1408 | 1354 | S10 | E44 | .732 | 12507 | 3.9 | 18 | -F | | V | | .60 | | | | | | | |
| GRP49459 | 31 | 1407 | 1413 | 1407 | N14 | E77 | .969 | 12510 | 6.4 | 6 | -F | | | | .49 | | | | 2 | 2 | 2 | 6 |
| ATHN | 31 | 1407E | 1412D | 1407U | N13 | E74 | .956 | 12510 | 6.1 | 5D | -N | 3 | V | | .66 | | | | DE | | | |
| MEUD | 31 | 1408E | 1413 | | N15 | E80 | .980 | 12510 | 6.6 | 5D | -F | | C | 1408 | .31 | | | | | | | |
| GRP49460 | 31 | 1415 | 1430 | 1419 | S12 | E44 | .740 | 12507 | 3.9 | 15 | --F | | | | .54 | | | | 2 | 2 | 2 | 3 |
| CANR | 31 | 1412 | 1430 | 1417 | S11 | E43 | .725 | 12507 | 3.8 | 18 | -F | | V | | .70 | | | | | | | |
| RAMY | 31 | 1417 | 1430 | 1420 | S12 | E44 | .740 | 12507 | 3.9 | 13 | -F | 4 | C | | .37 | | | | DE | | | |
| GRP49464 | 31 | 1929 | 1940 | 1931 | N14 | E79 | .977 | 12510 | 6.7 | 11 | -N | | | | .35 | | | | 3 | 3 | 2 | 3 |
| RAMY | 31 | 1928 | 1941 | 1931 | N14 | E79 | .977 | 12510 | 6.7 | 13 | -N | 3 | C | | .28 | | | | DE | | | |
| PALE | 31 | 1930E | 1943 | 1931U | N16 | E76 | .964 | 12510 | 6.5 | 13D | -N | 1 | V | | .41 | | | | F | | | |
| MCMA | 31 | 1930 | 1937 | 1931 | N13 | E83 | .989 | 12510 | 7.0 | 7 | -B | | C | 1931 | | | | | | | | |
| | 31 | 2108 | 2129 | NO FLARE PATROL | | | | | | | | | | | | | | | | | | |
| 465 PALE | 31 | 2202E | 2205 | 2203U | N04 | W19 | .328 | 12511 | 30.5 | 3D | --F | 2 | V | | .62 | | | | F | | | 1 |
| | 31 | 2250 | 2252 | NO FLARE PATROL | | | | | | | | | | | | | | | | | | |

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

### DAILY FLARE INDICES

| Date | Flare Index | HR OBS | Date | Flare Index | HR OBS | Date | Flare Index | HR OBS |
|---|---|---|---|---|---|---|---|---|
| 730801 | 7.81 | 23.9 | 730809 | 1.07 | 24.0 | 730822 | 0.00 | 23.9 |
| 730802 | 13.89 | 22.8 | 730810 | 9.25 | 23.5 | 730824 | 0.00 | 22.7 |
| 730803 | 22.72 | 24.0 | 730811 | 8.00 | 23.9 | 730826 | 0.00 | 22.4 |
| 730804 | 12.30 | 24.0 | 730816 | 0.00 | 22.5 | 730827 | 7.06 | 22.4 |
| 730805 | 7.61 | 23.0 | 730818 | 0.00 | 23.4 | 730829 | 0.00 | 21.9 |
| 730806 | 286.60 | 24.0 | 730819 | 0.00 | 22.4 | 730830 | 8.02 | 24.0 |
| 730807 | 14.21 | 24.0 | 730820 | 0.00 | 22.4 | 730831 | 6.70 | 23.6 |
| 730808 | 3.81 | 23.4 | 730821 | 50.39 | 24.0 | | | |

When no Flare Index is given, it is 0 for that day.

# SOLAR FLARES
## Unconfirmed
### AUGUST 1973

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | MCMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA 1st. Deg. | CORR. AREA 1st. Deg. | MAX. WIDTH deg | MAX. INT. % | |
| 285 ATHN | 01 | 0405E | 0423 | 0407 | S06 | W09 | .256 | 12460 | 31.5 | 18D | -F | 1 | C | | .33 | | | | DE 8 |
| 288 RAMY | 01 | 1416 | 1427 | 1422 | S10 | E79 | .986 | 12472 | 7.5 | 11 | -N | 3 | C | | .66 | | | | DE 7 |
| 293 PALE | 02 | 0229E | 0238 | 0230 | S07 | W22 | .429 | 12460 | 31.5 | 9D | -F | 2 | C | | .27 | | | | F 5 |
| 294 PALE | 02 | 0239 | 0249 | 0242 | S10 | W74 | .968 | 12470 | 27.6 | 10 | -F | 2 | C | | .27 | | | | 5 |
| 299 TEHR | 03 | 0400 | 0440 | 0413 | S09 | W22 | .446 | 12460 | 1.5 | 40 | -N | 4 | C | | 1.28 | | | | F 7 |
| 300 TEHR | 03 | 0446 | 0453 | 0448 | S08 | E70 | .947 | 12472 | 8.4 | 7 | -N | 4 | C | | .28 | | | | F 7 |
| GRP49302 | 03 | 0706 | 0743 | 0719 | S13 | E62 | .902 | 12472 | 7.9 | 37 | -F | | | | 1.11 | | | | 2 2 2 9 |
| ABST | 03 | 0706E | 0752D | 0719 | S14 | E63 | .911 | 12472 | 8.0 | 46D | 1F | | P | 0719 | 1.80 | 4.10 | | | D |
| MONT | 03 | 0712E | 0733 | 0718 | S11 | E61 | .891 | 12472 | 7.9 | 21D | -N | | C | 0718 | .41 | | | | |
| 303 MONT | 03 | 0918 | 0929 | 0924 | S11 | E60 | .883 | 12472 | 7.9 | 11 | -N | | C | 0924 | .10 | | | | D 7 |
| 304 PALE | 03 | 2151E | 2156D | 2153U | S06 | W47 | .748 | 12460 | 31.4 | 5D | -F | 1 | C | | .72 | | | | F 4 |
| 307 ABST | 04 | 0458E | 0622 | 0521 | N07 | E25 | .420 | 12474 | 6.1 | 84D | -F | | P | 0521 | 1.80 | 2.00 | | | FK 5 |
| 312 ARCE | 04 | 0803 | 0810 | 0805 | N06 | E25 | .420 | 12474 | 6.2 | 7 | -N | | C | 0805 | .61 | .70 | | | 8 |
| 314 MONT | 04 | 0928 | 1000 | 0934 | N07 | E25 | .420 | 12474 | 6.3 | 32 | -N | | C | 0934 | .21 | | | | EH 6 |
| 315 MONT | 04 | 1031 | 1041 | 1034 | S07 | W53 | .814 | 12460 | 31.5 | 10 | -N | | C | 1034 | .10 | | | | D 6 |
| 316 MONT | 04 | 1035 | 1045 | 1040 | S05 | W59 | .865 | 12460 | 31.0 | 10 | -N | | C | 1040 | .21 | | | | D 6 |
| 317 RAMY | 04 | 1410 | 1417 | 1411 | S08 | W59 | .870 | 12460 | 31.2 | 7 | -F | 3 | C | | .28 | | | | DE 5 |
| 320 VORO | 04 | 2336 | 2350 | 2338 | N06 | E00 | .000 | 12474 | 5.0 | 14 | -B | | C | 2338 | .46 | .45 | | 70 | EJLG 4 |
| 322 PALE | 05 | 0227E | 0249 | 0228 | N06 | E12 | .207 | 12474 | 6.0 | 22D | -F | 3 | V | | .15 | | | | DE 3 |
| 323 WEND | 05 | 1629 | 1645D | | N06 | E04 | .069 | 12474 | 6.0 | 16D | 1F | | P | | 3.09 | | | | 7 |
| 324 PALE | 05 | 1837E | 1850 | 1840 | N06 | E03 | .052 | 12474 | 6.0 | 13D | -F | 2 | C | | .27 | | | | F 4 |
| 329 CROM | 06 | 0440E | 0450D | | N06 | W02 | .035 | 12474 | 6.0 | 10D | -F | | V | 0440 | 1.40 | | | | 7 |
| GRP49330 | 06 | 0502 | 0547 | 0543 | N07 | W05 | .088 | 12474 | 5.8 | 45 | -F | | | | 3.21 | | | | 2 2 2 8 |
| WEND | 06 | 0502 | 0544D | | N07 | W04 | .071 | 12474 | 5.9 | 42D | 1N | | P | | 5.16 | | | | |
| UPIC | 06 | 0540E | 0547 | 0543 | N07 | W05 | .088 | 12474 | 5.9 | 7D | -F | | P | 0543 | 1.26 | | | | T |
| 332 MONT | 06 | 0646 | 0714 | 0651 | S06 | E67 | .927 | 12476 | 11.3 | 28 | -F | | C | 0651 | .10 | | | | 10 |
| GRP49334 | 06 | 1231 | 1253 | 1231 | N06 | W07 | .121 | 12474 | 6.0 | 22 | -N | | | | .21 | | | | 2 2 1 11 |
| TEHR | 06 | 1231E | 1300 | 1231U | N06 | W06 | .104 | 12474 | 6.1 | 29D | -N | 3 | V | | .21 | | | | F |
| HUAN | 06 | 1234E | 1245 | | N06 | W07 | .121 | 12474 | 6.0 | 11D | -N | 1 | P | 1238 | | | | | T |
| 336 RAMY | 06 | 1500 | 1514 | 1502 | N06 | W10 | .173 | 12474 | 5.9 | 14 | -N | 3 | C | | .46 | | | | DE 9 |
| 343 PALE | 06 | 2358E | 0012 | 0001 | N08 | W60 | .862 | 12461 | 2.5 | 14D | -F | 3 | V | | .98 | | | | F 5 |
| GRP49344 | 06 | 2359 | 0013 | 0001 | N06 | W12 | .207 | 12474 | 6.1 | 14 | -N | | | | .72 | | | | 2 2 2 5 |
| PALE | 06 | 2358 | 0014 | 0000 | N06 | W12 | .207 | 12474 | 6.1 | 16 | -N | 3 | V | | .72 | | | | DE |
| PALE | 06 | 2358 | 0014 | 0008 | N06 | W12 | .207 | 12474 | 6.1 | 16 | -N | 3 | V | | .62 | | | | DE |
| MANI | 07 | 0000 | 0011 | 0002 | N06 | W11 | .190 | 12474 | 6.2 | 11 | -N | 2 | | 0002 | .72 | .74 | | | F |
| 346 PALE | 07 | 0143 | 0218 | 0151 | N06 | W16 | .274 | 12474 | 5.9 | 27 | -N | 2 | V | | .98 | | | | DE 5 |
| 347 PALE | 07 | 0258E | 0302D | 0259U | N06 | W17 | .291 | 12474 | 5.8 | 4D | -F | 2 | V | | .36 | | | | F 5 |
| 349 KHAR | 07 | 0903E | 0934 | | N06 | W22 | .373 | 12474 | 5.7 | 31D | -F | | C | 0909 | 1.36 | 1.40 | | | D 11 |
| 350 UPIC | 07 | 0906 | 0920 | 0907U | S08 | E52 | .807 | 12476 | 11.3 | 14 | -F | | P | 0907 | .21 | | | | D 11 |
| 354 HUAN | 07 | 1602 | 1607 | 1604 | N06 | W26 | .436 | 12474 | 5.7 | 5 | -F | 1 | C | 1604 | .31 | .34 | | | 8 |
| 356 PALE | 07 | 1719 | 1724D | 1720 | N04 | W27 | .454 | 12474 | 5.7 | 5D | -N | 2 | C | | .45 | | | | F 5 |
| 357 PALE | 07 | 1814 | 1823 | 1816 | N06 | W24 | .405 | 12474 | 6.0 | 9 | -N | 3 | V | | .41 | | | | F 4 |
| 364 PALE | 08 | 0406 | 0415D | 0408 | N06 | W30 | .497 | 12474 | 5.9 | 9D | -F | 2 | V | | .41 | | | | 6 |
| 365 TEHR | 08 | 0515E | 0535 | 0520 | N05 | W33 | .543 | 12474 | 5.7 | 20D | -N | 4 | V | | .15 | | | | DE 5 |

# SOLAR FLARES
## Unconfirmed
### AUGUST 1973

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE AUG | START | END | MAX. PHASE | APPROX. LAT. | APPROX. LONGIT. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hdg. | MAX. INT. % | |
| 367 MONT | 08 | 0759 | 0807 | 0801 | N21 | W88 | .997 | 12461 | 1.7 | 8 | -F | | C | 0801 | | | | | 10 |
| 371 PALE | 08 | 1707 | 1710D | 1709 | N16 | W63 | .886 | 12471 | 4.0 | 30 | -F | 2 | C | | .27 | | | | 5 |
| 372 PALE | 08 | 1912E | 1922 | 1914 | N08 | W38 | .612 | 12474 | 5.9 | 100 | -N | 2 | C | | .27 | | | | 4 |
| 373 PALE | 08 | 2306E | 2307D | 2306U | S08 | W19 | .402 | 12472 | 7.5 | 10 | -F | 2 | V | | .31 | | | | 3 |
| 374 MANI | 08 | 2340E | 2355 | 2340U | N08 | W41 | .652 | 12474 | 5.9 | 150 | -N | 1 | | 2340 | .52 | .68 | | | 3 |
| 375 MANI | 09 | 0341 | 0357 | 0343 | N08 | W44 | .691 | 12474 | 5.9 | 16 | -F | 2 | | 0343 | .31 | .43 | | | 5 |
| GRP49376 | 09 | 0648 | 0651 | 0648 | N14 | W75 | .961 | 12471 | 3.7 | 3 | -F | | | | .16 | | | | 2 2 2 7 |
| UPIC | 09 | 0648E | 0652U | | N14 | W74 | .956 | 12471 | 3.7 | 40 | -F | | P | 0650 | .21 | | | | |
| MONT | 09 | 0648 | 0658 | 0648 | N13 | W75 | .961 | 12471 | 3.7 | 2 | -F | | C | 0648 | .10 | | | | |
| 377 MONT | 09 | 0653 | 0654 | 0653 | N12 | W77 | .970 | 12471 | 3.5 | 1 | -F | | C | 0653 | .10 | | | | 7 |
| 378 MONT | 09 | 0757 | 0807 | 0801 | N05 | W44 | .692 | 12474 | 6.8 | 10 | -F | | C | 0801 | .10 | | | | 8 |
| GRP49379 | 09 | 0842 | 0900 | 0847 | N13 | W77 | .970 | 12471 | 3.6 | 18 | -F | | | | .45 | | | | 2 2 2 9 |
| MONT | 09 | 0838 | 0856 | 0845 | N12 | W77 | .970 | 12471 | 3.6 | 18 | -N | | C | 0845 | .10 | | | | OH |
| CANR | 09 | 0846 | 0903 | 0849 | N13 | W77 | .970 | 12471 | 3.6 | 17 | -F | | V | 0849 | .80 | | | | |
| 382 RAMY | 09 | 1130 | 1154D | 1132 | N14 | W77 | .970 | 12471 | 3.7 | 240 | -F | 4 | C | | .46 | | | | DE 11 |
| 384 MCMA | 09 | 1256E | 1257D | | N16 | W85 | .994 | 12471 | 3.2 | 10 | -N | | P | 1257 | | | | | 11 |
| GRP49386 | 09 | 1509 | 1601 | 1537 | N14 | W81 | .984 | 12471 | 3.6 | 52 | -N | | | | .39 | | | | 2 2 1 9 |
| HUAN | 09 | 1509 | 1523 | 1515 | N14 | W80 | .981 | 12471 | 3.6 | 14 | -F | 1 | C | 1515 | .26 | | | | O |
| ARCE | 09 | 1515E | 1615 | 1537 | N14 | W81 | .984 | 12471 | 3.6 | 600 | -B | | C | 1537 | .39 | 1.30 | | | H |
| HUAN | 09 | 1530 | 1547 | 1536 | N14 | W80 | .981 | 12471 | 3.6 | 17 | -F | 1 | C | 1536 | | | | | E |
| 394 MANI | 10 | 0552 | 0601D | 0558 | N08 | W59 | .853 | 12474 | 5.8 | 90 | -N | 2 | | 0558 | .41 | .74 | | | 7 |
| GRP49395 | 10 | 0706 | 0728 | 0714 | N15 | W89 | .999 | 12471 | 3.6 | 22 | -F | | | | .21 | | | | 2 2 2 10 |
| MONT | 10 | 0706 | 0719 | 0714 | N15 | W87 | .997 | 12471 | 3.8 | 13 | -N | | C | 0714 | .21 | | | | |
| UPIC | 10 | 0717E | 0736 | | N15 | W90 | 1.000 | 12471 | 3.6 | 190 | -F | | P | 0724 | .21 | | | | |
| 396 UPIC | 10 | 0749 | 0810 | | N15 | W90 | 1.000 | 12471 | 3.6 | 21 | -F | | P | 0750 | .21 | | | | 11 |
| 397 ISTA | 10 | 0855 | 0925 | | N12 | W90 | 1.000 | 12471 | 3.6 | 30 | -F | | | | | | | | 9 |
| 398 MONT | 10 | 1013 | 1026 | 1017 | N15 | W88 | .998 | 12471 | 3.8 | 13 | -N | | C | 1017 | .21 | | | | 9 |
| 399 MONT | 11 | 0636 | 0640 | 0637 | N06 | W73 | .954 | 12474 | 5.8 | 4 | -N | | C | 0637 | .10 | | | | O 8 |
| 400 CATA | 17 | 0825 | 0850 | 0845 | N15 | E85 | .993 | 12488 | 23.7 | 25 | -F | 3 | C | 0845 | .29 | | | (138) | 9 |
| 401 CATA | 17 | 0950 | 1005 | 0955 | N13 | W80 | .981 | 12475 | 11.4 | 15 | -F | 3 | C | 0955 | .29 | | | (123) | 8 |
| GRP49402 | 17 | 1436 | 1500 | 1438 | N18 | W19 | .370 | 12483 | 16.2 | 24 | -F | | | | .41 | | | | 2 2 2 9 |
| MCMA | 17 | 1432 | 1450 | 1434 | N18 | W18 | .356 | 12483 | 16.3 | 18 | -N | | C | 1434 | .52 | .50 | | | E |
| CANR | 17 | 1439 | 1509 | 1441 | N18 | W19 | .370 | 12483 | 16.2 | 30 | -F | | V | | .30 | | | | |
| 403 PALE | 17 | 1936E | 1948 | 1937U | N10 | E71 | .941 | 12488 | 23.1 | 120 | -F | 3 | V | | .21 | | | | DE 4 |
| 405 ABST | 19 | 0813E | 0815D | 0814 | N12 | E57 | .833 | 12488 | 23.6 | 20 | -F | | P | 0814 | 1.18 | 2.00 | | | EJ 9 |
| 406 ABST | 20 | 0727E | 0732D | 0728 | N12 | E44 | .690 | 12488 | 23.6 | 50 | -F | | P | 0728 | .90 | 1.20 | | 55 | DJ 10 |
| 407 RAMY | 20 | 1408 | 1428 | 1411 | N12 | E27 | .456 | 12488 | 22.6 | 12 | -F | 3 | C | | .28 | | | | DE 6 |
| 408 PALE | 20 | 1826E | 1832 | 1827U | N10 | E41 | .662 | 12488 | 23.8 | 60 | -N | 2 | V | | .31 | | | | 3 |
| 409 MONT | 21 | 0831 | 0857 | 0839 | N13 | E30 | .502 | 12488 | 23.6 | 26 | -F | | C | 0839 | .10 | | | | 8 |
| 411 PALE | 21 | 2325E | 2332 | 2327 | N14 | W58 | .842 | 12482 | 17.6 | 70 | -N | 3 | V | | .26 | | | | DE 4 |
| 412 UPIC | 23 | 1656E | 1705D | | N16 | E90 | .999 | 12501 | 30.5 | 90 | -N | | P | 1656 | .21 | | | | 3 |
| 414 ABST | 25 | 0557E | 0617 | 0605 | N10 | W60 | .860 | 12499 | 20.7 | 200 | -F | | P | 0605 | .90 | 1.70 | | 63 | DJT 7 |
| 415 ABST | 25 | 0634 | 0725 | 0643 | N13 | W27 | .458 | 12488 | 23.2 | 51 | -F | | C | 0643 | .99 | 1.10 | | 60 | DJK 9 |
| 416 CANR | 25 | 1000 | 1010 | 1002 | N12 | W30 | .500 | 12488 | 23.2 | 10 | -F | | V | 1000 | .20 | .30 | | | 7 |
| 419 ABST | 26 | 0525E | 0539D | 0536 | N12 | W59 | .851 | 12499 | 21.8 | 140 | -F | | P | 0536 | .81 | 1.50 | | 58 | O 5 |

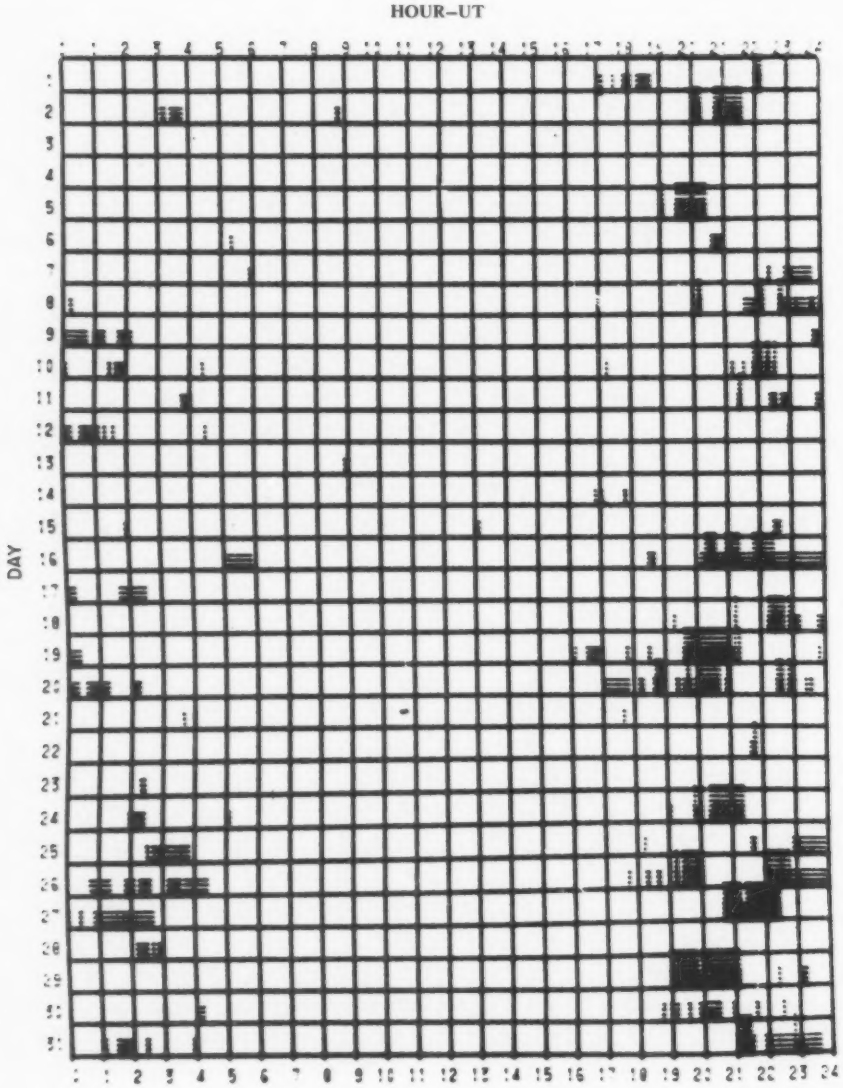
# SOLAR FLARES
## Unconfirmed
### AUGUST 1973

| OBSERV-ATORY | DATE AUG | OBSERVED UT START | OBSERVED UT END | OBSERVED UT MAX. PHASE | LOCATION APPROX. LAT. | LOCATION APPROX. MER. DIST. | LOCATION CENTRAL DISTANCE | LOCATION MCMATH PLAGE REGION | LOCATION CMP DAY | DURATION — MIN. | IMPORTANCE | OBS. COND. | OBS. TYPE | MEASUREMENTS TIME — UT | MEASUREMENTS MEAS. AREA Sq. Deg. | MEASUREMENTS CORR. AREA Sq. Deg. | MEASUREMENTS MAX. WIDTH Hα | MEASUREMENTS MAX. INT. % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 420 ATHN | 26 | 1445 | 1459 | 1448 | N32 | E35 | .656 | 12500 | 29.2 | 14 | -F | 2 | C | | .33 | | | | DE 7 |
| GRP49423 | 27 | 1200 | 1209 | 1202 | N03 | E25 | .426 | 12503 | 29.4 | 9 | -F | | | | .60 | | | | 2 2 2 7 |
| CATA | 27 | 1200 | 1205 | 1200 | N03 | E24 | .411 | 12503 | 29.3 | 5 | -N | 3 | C | 1200 | .29 | .31 | | (158) | |
| ABST | 27 | 1203E | 1212D | 1203 | N03 | E25 | .426 | 12503 | 29.4 | 90 | -F | | P | 1203 | .90 | 1.00 | | | DK |
| 424 ABST | 27 | 1219E | 1239D | 1219 | N03 | E25 | .426 | 12503 | 29.4 | 200 | -F | | P | 1219 | .90 | 1.00 | | | D 8 |
| 425 ABST | 27 | 1219E | 1239D | 1237 | N02 | E24 | .414 | 12503 | 29.3 | 200 | -F | | P | 1237 | .90 | 1.00 | | | OJ 8 |
| 429 ABST | 29 | 0514 | 0535 | 0515 | N03 | W02 | .088 | 12503 | 29.1 | 21 | -F | | C | 0515 | .80 | .80 | | 63 | DK 6 |
| 430 ABST | 29 | 0540E | 0703 | 0611 | N03 | W03 | .089 | 12503 | 29.0 | 83D | -F | | P | 0703 | 1.62 | 1.60 | | 62 | FK 3 |
| GRP49432 | 29 | 1123 | 1140 | 1127 | N13 | W87 | .997 | 12488 | 22.9 | 17 | -F | | | | .33 | | | | 2 2 1 5 |
| RAMY | 29 | 1122 | 1140 | 1125 | N13 | W84 | .992 | 12488 | 23.2 | 18 | -F | 4 | C | | .28 | | | | DE |
| RAMY | 29 | 1123E | 1140 | 1125 | N13 | W84 | .992 | 12488 | 23.2 | 170 | -F | 5 | V | | .33 | | | | DE |
| ATHN | 29 | 1129E | 1134D | 1129U | N13 | W90 | 1.000 | 12488 | 22.7 | 50 | -F | 3 | V | | | | | | DE |
| 435 PALE | 29 | 1835 | 1842 | 1836 | S17 | E72 | .966 | 12507 | 4.2 | 7 | -F | 3 | V | | .26 | | | | DE 3 |
| 436 PALE | 29 | 1843E | 1851 | 1844 | S14 | E74 | .972 | 12507 | 4.3 | 80 | -N | 3 | V | | .72 | | | | 3 |
| 438 MANI | 30 | 0215 | 0223D | 0217 | S14 | E16 | .445 | 12509 | 31.3 | 80 | -N | 2 | | 0217 | .21 | .22 | | | 6 |
| 440 MONT | 30 | 1024 | 1032 | 1025 | S09 | E56 | .849 | 12507 | 3.6 | 8 | -F | | C | 1025 | .10 | | | | 8 |
| GRP49441 | 30 | 1100 | 1123 | 1103 | N04 | W18 | .312 | 12503 | 29.1 | 23 | -F | | | | .61 | | | | 2 2 2 8 |
| RAMY | 30 | 1100 | 1123 | 1103 | N04 | W18 | .312 | 12503 | 29.1 | 23 | -F | 4 | C | | .33 | | | | DE |
| ARCE | 30 | 1105E | 1105D | | N03 | W17 | .300 | 12503 | 29.2 | | -F | | P | 1105 | .88 | .90 | | | |
| 442 RAMY | 30 | 1219E | 1223 | 1219U | S14 | E06 | .374 | 12509 | 31.0 | 40 | -F | 4 | V | | .33 | | | | DE 4 |
| 448 PALE | 30 | 2309 | 2324 | 2312 | S12 | E52 | .820 | 12507 | 3.9 | 15 | -N | 3 | V | | .62 | | | | DE 3 |
| 449 PALE | 30 | 2336E | 2348 | 2338 | N03 | W23 | .395 | 12503 | 29.3 | 120 | -N | 2 | V | | .26 | | | | DE 3 |
| 451 MANI | 31 | 0208 | 0218 | 0213 | N14 | E85 | .993 | 12510 | 6.5 | 10 | -F | 2 | | 0213 | .52 | 1.47 | | | 4 |
| GRP49452 | 31 | 0305 | 0314 | 0308 | N13 | E82 | .987 | 12510 | 6.3 | 9 | -F | | | | .51 | | | | 2 2 2 5 |
| MANI | 31 | 0305E | 0314 | 0308 | N13 | E84 | .992 | 12510 | 6.4 | 9D | -F | 2 | | 0308 | .52 | 1.44 | | | |
| CRON | 31 | 0308E | 0314 | | N13 | E80 | .981 | 12510 | 6.1 | 6D | -N | | V | | .50 | | | | |
| GRP49453 | 31 | 0535 | 0544 | 0542 | S14 | E50 | .808 | 12507 | 4.0 | 9 | -F | | | | .90 | | | | 1 1 1 7 |
| ABST | 31 | 0535 | 0542 | 0537 | S13 | E50 | .805 | 12507 | 4.0 | 7 | -F | | C | 0537 | .72 | 1.20 | | 63 | D |
| ABST | 31 | 0539 | 0544 | 0542 | S16 | E51 | .825 | 12507 | 4.1 | 5 | -F | | C | 0542 | .90 | 1.40 | | 69 | D |
| GRP49454 | 31 | 0600 | 0606 | 0603 | S16 | E51 | .825 | 12507 | 4.1 | 6 | -F | | | | .56 | | | | 2 2 2 7 |
| MANI | 31 | 0559 | 0606 | 0603 | S16 | E51 | .825 | 12507 | 4.1 | 7 | -F | 2 | | 0603 | .21 | .35 | | | |
| ABST | 31 | 0600 | 0606 | 0603 | S15 | E51 | .821 | 12507 | 4.1 | 6 | -N | | C | 0603 | .90 | 1.40 | | 76 | F |
| 455 ABST | 31 | 0636 | 0813D | 0643 | N13 | E80 | .981 | 12510 | 6.3 | 97D | 1N | | P | 0643 | .90 | | | 72 | OK 5 |
| 457 KHAR | 31 | 1112 | 1135D | 1116 | N04 | W30 | .500 | 12503 | 29.2 | 23D | 1N | | C | 1116 | 2.84 | 3.20 | | | 5 |
| 461 CANR | 31 | 1509 | 1535 | 1512 | N15 | E77 | .969 | 12510 | 6.4 | 26 | -F | | V | | .40 | | | | 3 |
| 462 HUAN | 31 | 1615E | 1618D | | S11 | E45 | .747 | 12507 | 4.1 | 3D | -F | 1 | P | 1616 | .31 | .45 | | | E 3 |
| 463 CANR | 31 | 1731 | 1754 | 1735 | N05 | W17 | .293 | 12511 | 30.5 | 23 | -F | | V | | .30 | | | | 3 |
| 466 CRON | 31 | 2357E | 0006 | | N04 | W21 | .361 | 12511 | 30.4 | 9D | -N | 8 | V | | .72 | | | | 3 |

# INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

## AUGUST 1973




Observatories included in total patrol:

| | | | | | |
|---|---|---|---|---|---|
| Abastumani | Carnarvon | Herstmonceux | Kiev | McMath-Hulbert | Palehua |
| Arcetri | Catania | Huancayo | Kodaikanal | Meudon | Ramey |
| Athenes | Culgoora | Istanboul | Locarno | Mitaka | Tachkent |
| Bucharest | Gran Canaria | Kharkov | Manila | Monte Mario | Teheran |
| | | Voroshilov | Upice | Zürich | Wendelstein |

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| 1 | 3750 | TYKW | 1 | 0328 | 0328.3 | 1 | 3.0 | 1.0 | | |
| | 3750 | TYKW | 1 | 0641 | 0643.5 | 10 | 3.0 | 1.0 | | |
| | 2000 | TYKW | 45 | 0642 | 0643.7 | 6 | 2.0 | 1.0 | | |
| | 210 | IZMI | 6 | 1107.9 | 1108 | .2 | 24.0 | | | |
| | 2800 | OTTA | 21 | 1125 | 1146.5 | 75 | 2.2 | 1.1 | | |
| | 3000 | BERL | 4 | 1138 | 1141.6 | 23 | 14.0 | 1.5 | | |
| | 1500 | BERL | 1 | 1139 | 1141.4 | 14 | 1.8 | | | |
| | 8800 | SGMR | 2 | 1140.2 | 1141 | 2 | 5.3 | 1.7 | | |
| | 4995 | SGMR | 2 | 1140.4 | 1141 | 2.9 | 4.4 | 1.5 | | |
| | 3100 | CRIM | 2 | 1140 | 1142 | 4 | 9.0 | 3.0 | | |
| | 2800 | OTTA | 2 | 1140.7 | 1141.5 | 2 | 5.6 | 2.8 | | |
| | 2800 | OTTA | 2 | 1140.9 | 1141 | .6 | 6.0 | 3.0 | | |
| | 2700 | PENN | 45 | 1140.7 | 1141.7 | 2.1 | 26.0 | 4.2 | | |
| | 2695 | SGMR | 46 | 1140.5 | 1140.9 | 1.7 | 10.8 | 8.2 | | |
| | 2695 | SGMR | 46 | | 1141.5 | | 26.0 | | | |
| | 960 | PENN | 1 | 1140.7 | 1141.3 | 2.3 | 1.0 | 0.4 | | |
| | 606 | SGMR | 2 | 1140.7 | 1141.1 | 1.7 | 3.3 | 1.1 | | |
| | 536 | ONDR | 45 | 1140 | 1141 | 2 | 40.0 | | | |
| | 410 | SGMR | 6 | 1140.7 | 1141.1 | 2.1 | 1.9 | .6 | | |
| | 260 | ONDR | 45 | 1140 | 1141.5 | 7 | 45.0 | | | |
| | 245 | SGMR | 6 | 1140.7 | 1145.7 | 6.1 | 29.7 | 9.9 | | |
| | 2800 | OTTA | 8 | 1141.6 | 1141.6 | | 21.6 | | | |
| | 2695 | CANR | 45 | 1141 | 1142.5 | 3 | 26.0 | 7.0 | | |
| | 1415 | SGMR | 1 | 1141 | 1141.4 | 2.3 | .6 | .2 | | |
| | 808 | ONDR | 45 | 1141 | 1142.5 | 2 | 60.0 | | | |
| | 18 | MCMA | 6 | 1302 | 1303 | 2 | | | 1 | |
| | 283 | DWIN | 45 | 1324 | 1325 | 3 | 10.0 | 3.0 | | |
| | 245 | SGMR | 6 | 1326.9 | 1327.8 | 2.4 | 44.0 | 29.3 | | |
| | 260 | ONDR | 45 | 1327 | 1327.5 | 3 | 25.0 | | | |
| | 23 | POTS | 45 | 1327.3 | 1327.6 | .7 | 7000.0 | 2000.0 | | |
| | 7000 | SAOP | 20 | 1341.9 | | 17.4 | 12.2 | | | |
| | 7000 | SAOP | 1 | 1431.8 | 1436.2 | 6.4 | 10.1 | 5.5 | | |
| | 2800 | OTTA | 1 | 1753 | 1753.5 | 5 | .8 | 0.4 | | |
| | 18 | BOUL | 41 | 1906 | 1909 | 8 | | | 1 | |
| | 18 | MCMA | | 1907 | 1909 | 6 | | | 1 | |
| | 245 | BOUL | 42 | 1914 | 0011 | 344 | | | 2 | |
| 2 | 9400 | TYKW | 20 | 0400 | 0407 | 50 | 4.0 | 2.0 | | |
| | 3750 | TYKW | 20 | 0400 | 0407 | 60 | 3.0 | 1.0 | | |
| | 1000 | TYKW | 45 | 0400 | 0405.6 | 12 | 3.0 | 1.0 | | |
| | 1420 | CRON | 45 | 0404 | 0407.5 | 4.5 | 4.0 | 1.0 | | |
| | 410 | SGMR | 6 | 1755.2 | 1756.2 | 1.5 | 3.1 | 1.0 | | |
| | 245 | SGMR | 6 | 1755.2 | 1755.5 | 1.6 | 8.8 | 2.2 | | |
| | 2800 | OTTA | 20 | 1843 | 1851 | 80 | 1.4 | 0.8 | | |
| 3 | 3100 | CRIM | 1 | 1125 | 1127 | 5 | 3.0 | 1.0 | | |
| | 245 | BOUL | 42 | 2053 | 2107 | 95 | | | 1 | |
| | 2695 | PENT | 1 | 2235.1 | 2235.7 | 1 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 24 | 2236 | | 6 | 1.6 | | | |
| 4 | 18 | MCMA | 6 | 1216 | 1218 | 2 | | | 1 | |
| | 245 | BOUL | 42 | 1857 | 2054 | 190 | | | 1 | |
| 5 | 18 | MCMA | 6 | 1556 | 1557 | 2 | | | 1 | |
| | 245 | BOUL | 42 | 2104 | 2131 | 80 | | | 1 | |
| | 2695 | PENT | 20 | 2332 | 2405 | 110 | 2.2 | 1.6 | | |
| | 1420 | BOUL | 3 | 2356 | 2358 | 5 | 4.0 | 1.0 | | |
| 6 | 606 | MANI | 22 | 0202.8 | 0216.4 | 19.7 | 23.7 | 6.4 | | |
| | 1420 | CRON | 3 | 0219 | 0220 | 1.5 | 3.0 | 1.0 | | |
| | 100 | HIRA | 45 | 0319 | 0320 | 2.5 | 1000.0 | 200.0 | | |
| | 100 | GORK | 41 | 0325.8 | 0326 | 2.3 | 300.0D | | | |
| | 100 | GORK | | 0325.8 | 0327.6 | | 300.0 | | | |
| | 3750 | TYKW | 20 | 0356 | 0410 | 70 | 3.0 | 1.0 | | |
| | 2000 | TYKW | 20 | 0356 | 0415 | 70 | 2.0 | 1.0 | | |
| | 606 | MANI | 8 | 0505.4 | 0505.7 | .9 | 14.2 | 4.7 | | |
| | 234 | POTS | 41 | 0600.7 | 0602.7 | 1.9 | 250.0 | 15.0 | | |
| | 3100 | CRIM | 24 | 0622 | 0625 | 78 | 5.0 | 2.0 | | |
| | 4995 | MANI | 2 | 0623.9 | 0626.3 | 7.5 | 6.0 | 3.0 | | |
| | 2695 | MANI | 2 | 0623.9 | 0625 | 7.2 | 7.5 | 3.0 | | |
| | 9400 | TYKW | 20 | 0624 | 0628 | 90 | 6.0 | 3.0 | | |
| | 3750 | TYKW | 20 | 0624 | 0626.2 | 90 | 4.0 | 2.0 | | |
| | 2000 | TYKW | 20 | 0624 | 0626.2 | 90 | 3.0 | 1.0 | | |
| | 221 | ABST | 6 | 0730.8 | 0731 | .5 | 54.0 | | | |
| | 210 | IZMI | 41 | 0730.5 | 0730.6 | 1.7 | 94.0 | | | |
| | 260 | ONDR | 45 | 0731 | 0731 | 2 | 45.0 | | | |
| | 3100 | CRIM | 1 | 0842 | 0846 | 7 | 4.0 | 1.0 | | |
| | 2800 | OTTA | 22 | 1116 | 1420 | 310 | 4.4 | 2.8 | | |
| | 930 | BORD | 45 | 1145 | 1145.1 | 1 | 9.0 | 2.0 | | |
| | 18 | MCMA | 6 | 1253 | 1254 | 2 | | | 1 | |
| | 7000 | SAOP | 40 | 1311.2 | | 8.2 | 12.6 | | | |
| | 7000 | SAOP | 20 | 1420.3 | | 80.5 | 13.0 | | | |
| | 315 | DWIN | 43 | 1545 | 1612 | 128 | 20.0 | 5.0 | | |
| | 283 | DWIN | 43 | 1545 | 1554 | 128 | 15.0 | 4.0 | | |
| | 2800 | OTTA | 20 | 1715 | 1722 | 20 | 2.2 | 1.0 | | |
| | 2800 | OTTA | 23 | 1930 | | 380 | 3.8 | 2.7 | | |
| | 1415 | SGMR | 2 | 2129.4 | 2130.6 | 1.8 | 2.2 | .9 | | |
| | 606 | SGMR | 2 | 2129.4 | 2130.6 | 1.8 | 2.0 | .8 | | |
| | 245 | SGMR | 6 | 2129 | 2130.5 | 4.1 | 9.4 | 3.8 | | |
| | 606 | SGMR | 1 | 2300.5 | 2300.7 | .9 | 9.4 | 4.0 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 410 | SGMR | 6 | 2300.5 | 2300.8 | .9 | 12.5 | 5.0 | | |
| | 245 | SGMR | 6 | 2300 | 2301 | 2.3 | 42.0 | 16.0 | | |
| | 410 | SGMR | 6 | 2306.5 | 2307.2 | .9 | 3.8 | 1.3 | | |
| | 245 | SGMR | 6 | 2306.4 | 2307.2 | 1.3 | 22.9 | 9.6 | | |
| | 606 | SGMR | 3 | 2307 | 2307.3 | .5 | 10.1 | 2.4 | | |
| | 2695 | PENT | 1 | 2359.5 | 2400 | 1.5 | 1.6 | 0.8 | | |
| | 606 | MANI | 40 | 2359 | 2359.5 | 1.7 | 15.9 | 5.5 | | |
| 7 | 2695 | BOUL | 3 | 0000 | 0001 | 1.5 | 3.0 | 1.0 | | |
| | 208 | VORO | 43 | 0025 | 0048 | 35 | 24.0 | | | |
| | 3000 | BERL | 1 | 0730 | 0730.2 | 1 | 2.4 | 0.8 | | |
| | 2695 | CANR | 3 | 0730 | 0731 | 1.5 | 4.0 | 1.0 | | |
| | 1500 | BERL | 1 | 0730 | 0730.2 | 1 | 1.9 | 0.7 | | |
| | 1420 | CANR | 3 | 0730 | 0731 | 1.5 | 2.0 | 1.0 | | |
| | 200 | GORK | 6 | 0828 | 0828.1 | .3 | 250.0 | 120.0 | | |
| | 2800 | OTTA | 27 | 1120 | | 275 | 3.1 | | | |
| | 2695 | SGMR | 1 | 1309.1 | 1309.2 | 1.3 | 6.8 | 2.1 | | |
| | 1415 | SGMR | 8 | 1309.3 | 1309.3 | .2 | 41.8 | 13.9 | | |
| | 606 | SGMR | 1 | 1309.2 | 1309.4 | .4 | 5.2 | 1.7 | | |
| | 960 | PENN | 24 | 1733 | 2109.9 | | 4.2 | | | |
| | 2700 | PENN | 24 | 1734.8 | 2022.4 | | 17.4 | | | |
| | 2800 | OTTA | 23 | 1745 | 1840 | 70 | 2.4 | 1.2 | | |
| | 2800 | OTTA | 1 | 1816 | 1816.2 | .5 | .8 | 0.4 | | |
| | 2800 | OTTA | 1 | 1840.5 | 1840.7 | .5 | 2.4 | 1.2 | | |
| | 2700 | PENN | 1 | 1840.3 | 1840.6 | .5 | 2.2 | 1.8 | | |
| | 960 | PENN | 1 | 1840.4 | 1840.7 | .5 | 3.5 | 0.6 | | |
| | 315 | DWIN | 45 | 1840 | 1841 | 2 | 55.0 | 4.0 | | |
| | 283 | DWIN | 45 | 1840 | 1840 | 2 | 15.0 | 4.0 | | |
| | 1420 | CANR | 8 | 1841.5 | 1842 | 1.5 | 10.0 | 3.0 | | |
| | 7000 | SAOP | 2 | 1844.1 | 1845.2 | 1.8 | 47.3 | 20.0 | | |
| | 7000 | SAOP | 29 | 1845 | | 9.5 | | | | |
| | 4995 | CANR | 8 | 1844 | 1845.5 | 2 | 18.0 | 6.0 | | |
| | 2700 | PENN | 3 | 1844.7 | 1846.1 | 3.7 | 35.9 | 11.2 | | |
| | 2695 | SGMR | 4 | 1844.9 | 1846.1 | 7.7 | 26.0 | 6.5 | | |
| | 2695 | CANR | 8 | 1844.5 | 1846.5 | 2.5 | 28.0 | 8.0 | | |
| | 10700 | PENN | 3 | 1845 | 1846 | 1 | 15.0 | 10.0 | | |
| | 9400 | HUAN | 1 | 1845.6 | 1846.8 | 1.6 | 10.5 | 4.5 | | |
| | 8800 | SGMR | 46 | 1845.4 | 1845.8 | 4.3 | 17.1 | 4.3 | | |
| | 8800 | SGMR | 46 | | 1846.2 | | 15.6 | | | |
| | 4995 | SGMR | 46 | 1845.1 | 1845.3 | 5.3 | 20.1 | 5.0 | | |
| | 4995 | SGMR | 46 | | 1846.3 | | 19.5 | | | |
| | 4995 | BOUL | 8 | 1845 | 1846 | 2 | 22.0 | 8.0 | | |
| | 2800 | OTTA | 4 | 1845 | 1846 | 4 | 21.0 | 7.0 | | |
| | 2695 | BOUL | 8 | 1845 | 1846.5 | 4 | 27.0 | 6.0 | | |
| | 1420 | BOUL | 45 | 1845 | 1847.5 | 5.5 | 56.0 | 20.0 | | |
| | 1415 | SGMR | 4 | 1845.1 | 1846.3 | 7.7 | 127.6 | 31.9 | | |
| | 960 | PENN | 45 | 1845 | 1846.3 | 12.5 | 45.9 | 2.4 | | |
| | 606 | SGMR | 3 | 1845.6 | 1846.2 | 5.4 | 100.3 | 25.1 | | |
| | 410 | SGMR | 6 | 1845.5 | 1845.7 | 5.5 | 30.2 | 7.6 | | |
| | 315 | DWIN | 45 | 1845 | | 2 | 70.0D | | | |
| | 283 | DWIN | 45 | 1845 | | 2 | 70.0D | | | |
| | 245 | SGMR | 6 | 1845.6 | 1846 | 6.9 | 54.0 | 13.5 | | |
| | 1420 | CANR | 4 | 1847.5 | 1850 | 3.5 | 88.0 | 30.0 | | |
| | 2800 | OTTA | 20 | 1857 | 1925 | 165 | 3.8 | 1.9 | | |
| | 245 | BOUL | 42 | 2025 | 2030 | 182 | | | 1 | |
| 8 | 100 | GORK | 44 | 0309 | | 66 | | 15.0 | | |
| | 100 | GORK | 6 | 0441 | 0441.2 | .8 | 50.0 | | | |
| | 8800 | ATHN | 45 | 0616.4 | 0616.8 | 1.4 | 41.0 | 10.3 | | |
| | 536 | ONDR | 5 | 0634.5 | 0634.5 | 1 | 70.0 | | | |
| | 260 | ONDR | 45 | 0720 | 0720.5 | 10 | 70.0 | | | |
| | 1500 | BERL | 1 | 1001.7 | 1002.1 | 1 | 3.2 | 0.9 | | |
| | 3000 | BERL | 1 | 1002 | 1002.2 | 1 | 3.2 | 1.2 | | |
| | 2695 | CANR | 3 | 1002 | 1002.5 | 1 | 3.0 | 1.0 | | |
| | 1420 | CANR | 8 | 1002 | 1002.5 | 1 | 4.0 | 1.0 | | |
| | 100 | GORK | 6 | 1059.4 | 1059.6 | .3 | 30.0 | 10.0 | | |
| | 245 | SGMR | 6 | 1250.4 | 1255.1 | 6.7 | 17.9 | 7.2 | | |
| | 2695 | SGMR | 1 | 1254.3 | 1254.6 | 1.4 | 3.2 | 1.3 | | |
| | 1415 | SGMR | 1 | 1254.5 | 1254.6 | .9 | 7.0 | 2.8 | | |
| | 18 | MCMA | 6 | 1254 | 1255 | 2 | | | 1 | |
| | 2800 | OTTA | 45 | 1704.9 | 1705 | 1 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 45 | 1707 | 1707.5 | 2 | 1.8 | 0.9 | | |
| | 2800 | OTTA | 31 | 1709.5 | 1713 | 10 | - .8 | -0.4 | | |
| | 2800 | OTTA | 2 | 1912.5 | 1913 | 1 | 7.2 | 2.4 | | |
| | 2700 | PENN | 3 | 1912.5 | 1913.2 | 1.9 | 10.7 | 1.8 | | |
| | 2695 | SGMR | 2 | 1912.8 | 1913 | .8 | 8.6 | 2.1 | | |
| | 2695 | BOUL | 8 | 1912.5 | 1913.5 | 1 | 10.0 | 3.0 | | |
| | 1420 | BOUL | 8 | 1912.5 | 1913.5 | 1.5 | 48.0 | 17.0 | | |
| | 1415 | SGMR | 4 | 1912.6 | 1913.1 | .9 | 64.8 | 13.4 | | |
| | 960 | PENN | 45 | 1912.5 | 1913.2 | 2.4 | 16.0 | 0.5 | | |
| | 606 | SGMR | 4 | 1913 | 1913.1 | .6 | 27.2 | 6.8 | | |
| | 2695 | PENT | 27 | 2230 | | 145 | 1.6 | | | |
| 9 | 100 | HIRA | 45 | 0222.5 | 0222.8 | 1 | 140.0 | 30.0 | | |
| | 100 | GORK | 6 | 0356.8 | 0357 | .6 | 70.0 | 20.0 | | |
| | 100 | GORK | 6 | 0412.8 | 0413.1U | .9 | 100.0D | | | |
| | 315 | DWIN | 43 | 0545 | 0553 | 75 | 35.0 | 3.0 | | |
| | 283 | DWIN | 43 | 0545 | 0616 | 75 | 30.0 | 3.0 | | |
| | 410 | SGMR | 44 | 0948 E | 1118.7 | 169.2D | 7.8 | | | |
| | 245 | SGMR | 44 | 0948 E | 1532 | 378 D | 38.8 | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 260 | ONDR | 44 | 0950 | 1108 | 340 | 45.0 | | | |
| | 315 | DWIN | 43 | 0955 | 1243 | 310 | 70.0D | 5.0 | | |
| | 283 | DWIN | 43 | 1025 | | 335 | | 5.0 | | |
| | 204 | KIEV | 44 | 1310 | | 160 | | 5.0 | | |
| | 3100 | CRIM | 1 | 1055 | 1100 | 5 | 12.0 | 5.0 | | |
| | 1500 | BERL | 22 | 1055.5 | 1059.3 | 5.2 | 3.0 | 1.0 | | |
| | 100 | GORK | 6 | 1056.6 | 1056.8U | .5 | 1.7 | 0.6 | | |
| | 3000 | BERL | 22 | 1057.5 | 1059.5 | 4.5 | 100.0D | | | |
| | 9500 | BERL | 20 | 1058.2 | 1059.5 | 1.6 | 2.6 | 0.8 | | |
| | 2695 | CANR | 3 | 1059 | 1100 | 1.5 | 4.0 | 2.0 | | |
| | 1420 | CANR | 3 | 1059 | 1059.5 | 1 | 3.0 | 1.0 | | |
| | 3000 | BERL | 46 | 1137.5 | 1141.6 | 5 | 2.0 | 1.0 | | |
| | 3000 | RERL | 46 | 1149.5 | 1151 | 9 | 11.0 | 2.4 | | |
| | 10700 | PENN | 3 | 1150 | 1152 | 10 | 6.2 | 1.5 | | |
| | 9500 | RERL | 22 | 1150 | 1152 | 8.5 | 15.0 | 4.0 | | |
| | 8800 | ATHN | 3 | 1150.2 | 1152.2 | 7.4 | 12.0 | 4.0 | | |
| | 8800 | SGMR | 22 | 1150.3 | 1152.3 | 11.8 | 14.4 | 5.4 | | |
| | 4995 | ATHN | 1 | 1150.7 | 1151.8 | 6.3 | 12.9 | 3.2 | | |
| | 4995 | SGMR | 2 | 1150.2 | 1153.2 | 9.4 | 3.9 | 1.3 | | |
| | 4995 | CANR | 45 | 1150 | 1153.5 | 5.5 | 7.5 | 1.9 | | |
| | 3100 | CRIM | 2 | 1150 | 1152 | 9 | 9.0 | 3.0 | | |
| | 2800 | OTTA | 46 | 1150 | 1151.1 | 7 | 6.0 | 2.0 | | |
| | 2700 | PENN | 3 | 1150.9 | 1151.4 | 6.4 | 6.0 | 3.0 | | |
| | 2695 | ATHN | 1 | 1150.6 | 1151.3 | 7 | 15.6 | 7.3 | | |
| | 2695 | SGMR | 2 | 1150.8 | 1151.1 | 7.6 | 3.5 | 1.2 | | |
| | 1500 | RERL | 46 | 1150 | 1151 | 9 | 6.8 | 1.7 | | |
| | 1415 | ATHN | 4 | 1150.8 | 1151 | 6.3 | 50.0 | 3.8 | | |
| | 1415 | SGMR | 40 | 1150.9 | 1151 | 6.2 | 48.6 | 5.8 | | |
| | 960 | PENN | 45 | 1150.9 | 1153.6 | 4.6 | 51.7 | 17.2 | | |
| | 930 | BORD | 40 | 1150 | 1153.5 | 5 | 14.0 | 1.3 | | |
| | 606 | SGMR | 40 | 1150.6 | 1153.6 | 5.2 | 47.0 | 2.0 | | |
| | 2695 | CANR | 45 | 1151.5 | 1152.5 | 7 | 3.8 | 1.2 | | |
| | 1420 | CANR | 45 | 1151 | 1151.5 | 7 | 7.0 | 2.0 | | |
| | 808 | ONDR | 45 | 1152.5 | 1152.5 | 4 | 49.0 | 9.0 | | |
| | 7000 | SAOP | 22 | 1153.8 | | 34.8 | 60.0 | | | |
| | 18 | MCMA | 6 | 1318 | 1320 | 2 | 37.2 | | 1 | |
| | 8800 | ATHN | 3 | 1413.7 | 1416 | 5.3 | 23.4 | 7.2 | | |
| | 4995 | ATHN | 1 | 1413.6 | 1415.6 | 5.6 | 9.0 | 3.2 | | |
| | 3000 | RERL | 22 | 1413.5 | 1415.8 | 7 | 5.0 | 1.2 | | |
| | 2800 | OTTA | 21 | 1413.5 | 1416.8 | 10 | 2.0 | 1.0 | | |
| | 2700 | PENN | 1 | 1413.9 | 1415.7 | 7.4 | 8.2 | 2.7 | | |
| | 2695 | ATHN | 1 | 1413.3 | 1415.6 | 5.4 | 3.5 | 1.2 | | |
| | 2695 | CANR | 45 | 1413.5 | 1415.5 | 6.5 | 7.0 | 2.0 | | |
| | 1500 | BERL | 46 | 1413.5 | 1415.5 | 9 | 25.0 | 1.8 | | |
| | 1420 | BOUL | 45 | 1413.5 | 1416 | 8 | 24.0 | 6.0 | | |
| | 1420 | CANR | 45 | 1413.5 | 1415.5 | 3 | 26.0 | 6.0 | | |
| | 1415 | ATHN | 4 | 1413.8 | 1415.5 | 5.8 | 26.2 | 3.8 | | |
| | 15400 | SGMR | 4 | 1414.8 | 1415.7 | 7.9 | 19.8 | 5.0 | | |
| | 10700 | PENN | 3 | 1414.7 | 1416.1 | 9.5 | 22.5 | 5.2 | | |
| | 10500 | BERN | 3 | 1414.5 | 1415.6 | 3 | | 20.0 | | |
| | 9500 | RERL | 3 | 1414.5 | 1416 | 5.5 | 25.0 | 6.0 | | |
| | 9400 | HUAN | 2 | 1414.7 | 1415.8 | 2.9 | 12.0 | 6.6 | | |
| | 8800 | SGMR | 4 | 1414.7 | 1416 | 4.4 | 20.2 | 5.1 | | |
| | 7000 | SAOP | 4 | 1414.3 | 1415.5 | 1.8 | 44.7 | 29.7 | | |
| | 7000 | SAOP | 29 | 1416.1 | | 2.9 | | | | |
| | 4995 | SGMR | 2 | 1414.6 | 1416 | 4.4 | 7.5 | 1.9 | | |
| | 4995 | BOUL | 3 | 1414 | 1415.5 | 4.5 | 11.0 | 4.0 | | |
| | 4995 | CANR | 3 | 1414.5 | 1415.5 | 4.5 | 11.0 | 4.0 | | |
| | 2800 | OTTA | 2 | 1414.5 | 1415.6 | 2 | 4.8 | 2.4 | | |
| | 2695 | SGMR | 2 | 1414 | 1415 | 5.8 | 6.0 | 1.5 | | |
| | 2695 | BOUL | 45 | 1414.5 | 1416 | 5 | 8.0 | 2.0 | | |
| | 1415 | SGMR | 4 | 1414.1 | 1415.7 | 6.4 | 28.5 | 7.1 | | |
| | 960 | PENN | 45 | 1414.1 | 1415.4 | 2.4 | 18.8 | 1.1 | | |
| | 606 | SGMR | 2 | 1414.7 | 1415.8 | 1.5 | 1.9 | .7 | | |
| | 410 | SGMR | 6 | 1415 | 1415.7 | 1.5 | 6.1 | 2.3 | | |
| | 2800 | OTTA | 1 | 1418 | 1418.3 | 1 | 1.0 | 0.5 | | |
| | 1420 | CANR | 3 | 1544.5 | 1545.5 | 1.5 | 5.0 | 2.0 | | |
| | 1415 | ATHN | 1 | 1544.4 | 1545.6 | 2.9 | 5.8 | 1.9 | | |
| | 1415 | SGMR | 1 | 1544.4 | 1544.7 | 3.1 | 5.7 | 1.4 | | |
| | 4995 | ATHN | 1 | 1545 | 1546 | 2.8 | 2.6 | .6 | | |
| | 4995 | SGMR | 1 | 1545.5 | 1546 | 2.5 | 2.7 | .7 | | |
| | 2800 | OTTA | 1 | 1545 | 1546 | 3 | 3.8 | 1.6 | | |
| | 2700 | PENN | 1 | 1545.2 | 1545.6 | 3.9 | 6.5 | 0.9 | | |
| | 2695 | ATHN | 1 | 1545.3 | 1545.8 | 2.3 | 2.4 | .6 | | |
| | 2695 | SGMR | 1 | 1545.3 | 1545.8 | 3.8 | 4.6 | 1.2 | | |
| | 2695 | BOUL | 3 | 1545.5 | 1546.5 | 3. | 5.0 | 2.0 | | |
| | 1420 | BOUL | 8 | 1545 | 1546 | 1.5 | 5.0 | 2.0 | | |
| | 960 | PENN | 1 | 1545 | 1545.6 | 1.4 | 5.3 | 1.3 | | |
| | 315 | DWIN | 45 | 1545 | 1546 | 2 | 50.0 | 10.0 | | |
| | 283 | DWIN | 45 | 1545 | 1545 | 2 | 15.0 | 5.0 | | |
| | 2695 | CANR | 3 | 1546 | 1546.5 | 3.5 | 6.0 | 2.0 | | |
| | 2700 | PENN | 45 | 1549.8 | 1550.6 | 7.8 | 41.4 | 7.2 | | |
| | 2695 | SGMR | 46 | 1549.9 | 1550.7 | 10.2 | 26.0 | 6.5 | | |
| | 2695 | SGMR | 46 | | 1552.4 | | 11.4 | | | |
| | 1420 | BOUL | 45 | 1549 | 1550.5 | 9 | 46.0 | 9.0 | | |
| | 15400 | SGMR | 4 | 1550.4 | 1552.3 | 5.4 | 31.6 | 7.9 | | |
| | 10700 | PENN | 3 | 1550.2 | 1552.3 | 9.6 | 33.5 | 7.4 | | |
| | 10500 | BERN | 3 | 1550.4 | 1552.4 | 4 | | 31.0 | | |
| | 9400 | HUAN | 3 | 1550.4 | 1552.4 | 5.7 | 29.2 | 8.9 | | |
| | 8800 | ATHN | 4 | 1550.2 | 1552.1 | 7.3 | 30.6 | 7.2 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 8800 | SGMR | 4 | 1550.4 | 1552.4 | 7.1 | 30.8 | 7.7 | | |
| | 4995 | ATHN | 4 | 1550.2 | 1550.7 | 7.3 | 16.8 | 5.2 | | |
| | 4995 | SGMR | 46 | 1550.1 | 1550.6 | 7.3 | 20.4 | 5.1 | | |
| | 4995 | SGMR | 46 | | 1552.4 | | 13.9 | | | |
| | 4995 | BOUL | 45 | 1550 | 1550 | 6.5 | 25.0 | 7.0 | | |
| | 4995 | CANR | 45 | 1550 | 1551 | 6.5 | 23.0 | 6.0 | | |
| | 2800 | OTTA | 46 | 1550 | 1550.7 | 3.5 | 25.6 | 8.1 | | |
| | 2800 | OTTA | 29 | 1553.5 | | 4 | 3.0 | 1.5 | | |
| | 2695 | ATHN | 4 | 1550.1 | 1550.6 | 7.4 | 22.4 | 5.9 | | |
| | 2695 | BOUL | 45 | 1550 | 1551 | 7 | 27.0 | 4.0 | | |
| | 1420 | CANR | 45 | 1550 | 1551 | 6.5 | 44.0 | 10.0 | | |
| | 1415 | ATHN | 45 | 1550.1 | 1550.5 | 6 | 49.9 | 11.5 | | |
| | 1415 | SGMR | 46 | 1550.2 | 1550.6 | 8.3 | 54.9 | 13.7 | | |
| | 1415 | SGMR | 46 | | 1552.5 | | 27.4 | | | |
| | 960 | PENN | 45 | 1550.2 | 1550.7 | 2.8 | 29.1 | 5.3 | | |
| | 960 | PENN | 29 | 1553 | 1553 | 4.2 | 2.6 | 0.5 | | |
| | 606 | SGMR | 46 | 1550.5 | 1550.6 | 4.5 | 16.6 | 16.2 | | |
| | 606 | SGMR | 46 | | 1552.5 | | 64.9 | | | |
| | 410 | SGMR | 6 | 1550.4 | 1550.6 | 3.1 | 77.3 | 19.3 | | |
| | 315 | DWIN | 45 | 1550 | 1551 | 3 | 70.0D | | | |
| | 283 | DWIN | 45 | 1550 | | 3 | 70.0D | 5.0 | | |
| | 245 | SGMR | 48 | 1550.4 | 1550.6 | 4.8 | 550.0 | 137.5 | | |
| | 2695 | CANR | 45 | 1551 | 1551.5 | 5.5 | 26.0 | 5.0 | | |
| | 283 | DWIN | 43 | 1740 | 1816 | 55 | 40.0 | 5.0 | | |
| | 315 | DWIN | 43 | 1758 | 1816 | 22 | 40.0 | 5.0 | | |
| | 18 | MCMA | 6 | 2039 | 2041 | 2 | | | 1 | |
| | 2800 | OTTA | 2 | 2121 | 2123.2 | 5 | 1.8 | 0.8 | | |
| | 1415 | SGMR | 1 | 2121.8 | 2122.5 | 2.4 | 3.9 | 1.3 | | |
| | 1420 | BOUL | 3 | 2122 | 2123 | 2.5 | 2.0 | 1.0 | | |
| | 2800 | OTTA | 2 | 2141.9 | 2142 | 3 | 2.0 | 0.9 | | |
| | 2695 | BOUL | 3 | 2142 | 2142.5 | 2.5 | 3.0 | 1.0 | | |
| | 1420 | BOUL | 45 | 2142 | 2146.5 | 9 | 1.0 | | | |
| | 2695 | PENT | 23 | 2205 | 2345 | 140 | 2.6 | 1.2 | | |
| | 3750 | TYKW | 20 | 2330 | 2340 | 50 | 2.0 | 1.0 | | |
| 10 | 9400 | TYKW | 1 | 0013.5 | 0014.2 | 1.5 | 3.0 | 1.0 | | |
| | 4995 | MANI | 1 | 0013.7 | 0014.4 | 1.5 | 4.0 | 1.3 | | |
| | 4995 | BOUL | 3 | 0013.5 | 0014 | 1 | 8.0 | 3.0 | | |
| | 3750 | TYKW | 1 | 0013.5 | 0014.2 | 1.5 | 7.0 | 3.0 | | |
| | 2695 | PENT | 1 | 0013.7 | 0014.3 | 1.5 | 7.2 | 3.6 | | |
| | 2695 | MANI | 1 | 0013.7 | 0014.4 | 1.4 | 6.0 | 2.4 | | |
| | 1420 | CRON | 8 | 0013.5 | 0014.5 | 2 | 16.0 | 6.0 | | |
| | 1415 | MANI | 3 | 0013.7 | 0014.4 | 1.5 | 10.2 | 3.4 | | |
| | 1000 | TYKW | 1 | 0013.3 | 0014.3 | 1.5 | 15.0 | 3.0 | | |
| | 2695 | CRON | 3 | 0014 | 0015 | 2.5 | 7.0 | 3.0 | | |
| | 2695 | BOUL | 8 | 0014 | 0015 | 1.5 | 10.0 | 3.0 | | |
| | 1420 | BOUL | 8 | 0014 | 0014.5 | 2 | 13.0 | 5.0 | | |
| | 606 | MANI | 46 | 0014 | 0014.2 | 2.3 | 26.2 | 3.1 | | |
| | 2695 | PENT | 20 | 0033 | 0050 | 27 | 1.2 | 0.6 | | |
| | 315 | DWIN | 43 | 0423 | | 2 | 70.0D | | | |
| | 260 | ONDR | 41 | 0610 | 0651.5 | 170 | 25.0 | | | |
| | 221 | ABST | 6 | 0732.5 | 0732.8 | .5 | 30.0 | | | |
| | 245 | SGMR | 44 | 0949 E | 1303.6 | 403 E | 20.0 | | | |
| | 260 | ONDR | 41 | 1020 | 1120.5 | 280 | 25.0 | | | |
| | 204 | KIEV | 44 | 1035 | | 300 D | 10.0 | 5.0 | | |
| | 18 | MCMA | 6 | 1227 | 1229 | 3 | | | 1 | |
| | 18 | MCMA | 6 | 1507 | 1508 | 2 | | | 1 | |
| | 8800 | SGMR | 45 | 1846.5 | 1847.3 | 2.7 | 25.2 | 14.6 | | |
| | 8800 | SGMR | 45 | | 1848.4 | | 44.1 | | | |
| | 18 | MCMA | 4 | 2044 | 2056 | 12 | | | 1 | |
| | 18 | MCMA | 42 | 2136 | 2142 | 8 | | | 1 | |
| | 245 | BOUL | 42 | 2316 | 0005 | 88 | | | 1 | |
| 11 | 100 | GORK | 6 | 0459.3 | 0459.4 | .3 | 25.0 | 10.0 | | |
| | 100 | GORK | 6 | 0829.2 | 0829.5 | .5 | 15.0 | 5.0 | | |
| | 100 | GORK | 6 | 0840 | 0840.1 | .2 | 20.0 | 10.0 | | |
| | 260 | ONDR | 45 | 0950 | 0950.5 | 1.5 | 20.0 | | | |
| | 100 | GORK | 6 | 0955.9 | 0956 | .6 | 65.0 | | | |
| | 260 | ONDR | 45 | 0957.5 | 0957.5 | 2.5 | 85.0 | | | |
| | 18 | MCMA | 6 | 1432 | 1433 | 2 | | | 1 | |
| | 245 | BOUL | 42 | 1851 | 1949 | 131 | | | 2 | |
| | 245 | BOUL | 41 | 2238 | 2240 | 3 | | | 3 | |
| | 245 | BOUL | 42 | 2306 | 2334 | 59 | | | 2 | |
| 12 | 260 | ONDR | 45 | 0642.5 | 0643 | 1.5 | 15.0 | | | |
| 13 | 536 | ONDR | 45 | 0612 | 0612 | 4 | 40.0 | | | |
| | 808 | ONDR | 45 | 0614 | 0615 | 2 | 60.0 | | | |
| | 260 | ONDR | 45 | 0614 | 0621 | 9 | 80.0 | | | |
| | 200 | GORK | 41 | 0614.5 | 0615.7 | 6.9 | 40.0 | | | |
| | 200 | GORK | | 0614.5 | 0620.9 | | 45.0D | | | |
| | 100 | GORK | 49 | 0615.3 | 0615.7 | 26.2 | 70.0 | | | |
| | 100 | GORK | | 0615.3 | 0617.9 | | 80.0D | | | |
| | 100 | GORK | 6 | 0913.8 | 0915 | .7 | 20.0 | | | |
| | 100 | GORK | 6 | 1239 | 1239.4 | .8 | 45.0 | 20.0 | | |
| | 100 | GORK | 6 | 1259.8 | 1259.8 | .6 | 75.0D | | | |
| | 100 | GORK | 6 | 1301.1 | 1301.3 | .3 | 75.0D | | | |
| | 2800 | OTTA | 24 | 2000 | | 85 | 1.4 | | | |
| 14 | 100 | GORK | 6 | 1103.6 | 1103.7U | .7 | 100.0D | | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| | 18 | MCMA | 41 | 1402 | 1404 | 2 | | | 1 | |
| 15 | 100 | GORK | 6 | 0925.3 | 0925.4 | .4 | 100.0 | 20.0 | | |
| | 100 | GORK | 6 | 1212.8U | 1212.8U | .6 | 100.0D | | | |
| 16 | 10700 | PENN | 3 | 1126 | 1128.7 | | 15.7 | | | |
| | 2700 | PENN | 1 | 1126 | 1128.6 | | 7.7 | | | |
| | 960 | PENN | 1 | 1126 | 1128.1 | | 1.4 | | | |
| | 18 | MCMA | 6 | 1258 | 1300 | 2 | | | 1 | |
| | 2695 | BOUL | 3 | 1316 | 1318.5 | 5 | 7.0 | 3.0 | | |
| 17 | 18 | MCMA | 6 | 1655 | 1656 | 2 | | | 1 | |
| | 245 | BOUL | 42 | 1851 | 2350 | 326 | | | 2 | |
| 18 | 7000 | SAOP | 22 | 1248.2 | | 41.8 | 8.2 | | | |
| | 7000 | SAOP | 20 | 1440.8 | 1446.6 | 11.2 | 19.4 | | | |
| | 7000 | SAOP | 22 | 1502.9 | | 17.8 | 15.4 | | | |
| | 18 | MCMA | 6 | 1542 | 1543 | 2 | | | 1 | |
| | 7000 | SAOP | 2 | 1553.6 | 1555.5 | 3.2 | 11.4 | 6.2 | | |
| 20 | 7000 | SAOP | 41 | 1446.8 | | 36.4 | 17.1 | | | |
| | 7000 | SAOP | 32 | 1446.8 | | 18.8 | 171.0 | | | |
| | 7000 | SAOP | 32 | 1506.3 | | 5.9 | 14.0 | | | |
| | 7000 | SAOP | 32 | 1512.4 | | 11.3 | 10.5 | | | |
| 21 | 2800 | OTTA | 25 | 1325 | | 245 | 1.5 | | | |
| | 2800 | OTTA | 20 | 1325 | 1600 | 245 | 2.2 | 1.4 | | |
| | 245 | SGMR | 6 | 1409.9 | 1428.5 | 25.1 | 79.3 | 19.8 | | |
| | 410 | SGMR | 6 | 1423.5 | 1428.5 | 9.9 | 30.6 | 7.6 | | |
| | 606 | SGMR | 1 | 1428.4 | 1428.5 | .3 | 6.9 | 3.4 | | |
| | 1415 | SGMR | 2 | 1648.9 | 1649.3 | 1.2 | 9.7 | 3.2 | | |
| | 606 | SGMR | 1 | 1649.4 | 1649.5 | .6 | 6.1 | 2.0 | | |
| | 2800 | OTTA | 25 | 1730 | | 500 | 1.5 | | | |
| | 245 | BOUL | 42 | 1953 | 2045 | 224 | | | 1 | |
| 22 | 260 | ONDR | 45 | 0850 | 0856 | 10 | 15.0 | | | |
| | 100 | GORK | 6 | 0914 | 0914.5U | 2 | 55.0D | | | |
| | 260 | ONDR | 45 | 0922.5 | 0922.5 | 7.5 | 15.0 | | | |
| | 18 | MCMA | 6 | 1215 | 1216 | 2 | | | 1 | |
| | 18 | MCMA | 6 | 1709 | 1710 | 2 | | | 1 | |
| 23 | 260 | ONDR | 45 | 0834.5 | 0834.5 | 1 | 15.0 | | | |
| | 408 | TRST | 45 | 1001.8 | 1001.9 | .6 | 22.0 | 7.0 | | |
| | 18 | MCMA | 6 | 1142 | 1143 | 2 | | | 1 | |
| | 18 | MCMA | 6 | 1214 | 1215 | 1 | | | 1 | |
| 24 | 18 | MCMA | 42 | 1720 | 1722 | 2 | | | 1 | |
| 25 | 2800 | OTTA | 20 | 1305 | 1350 | 155 | 2.0 | 1.0 | | |
| | 18 | MCMA | 42 | 1449 | 1450 | 5 | | | 1 | |
| | 18 | MCMA | 41 | 1516 | 1520 | 5 | | | 1 | |
| | 18 | MCMA | 42 | 1544 | 1550 | 6 | | | 1 | |
| | 18 | MCMA | 6 | 1635 | 1636 | 1 | | | 1 | |
| | 2800 | OTTA | 27 | 1735 | | 140 | 1.8 | | | |
| | 245 | BOUL | 42 | 2250 | 2423 | 133 | | | 2 | |
| 26 | 2695 | CANR | 8 | 0710 | 0712 | 2.5 | 4.0 | 1.0 | | |
| | 1420 | CANR | 8 | 0710 | 0711.5 | 2 | 7.0 | 2.0 | | |
| | 2800 | OTTA | 27 | 1445 | | 135 | .8 | | | |
| | 245 | BOUL | 42 | 2324 | 0030 | 66 | | | 1 | |
| 27 | 221 | ABST | 6 | 0955 | 0955.2 | .5 | 25.0 | | | |
| | 260 | ONDR | 5 | 1016.5 | 1016.5 | 1 | 20.0 | | | |
| | 260 | ONDR | 41 | 1250 | 1335 | 56 | 30.0 | | | |
| | 260 | ONDR | 45 | 1419 | 1420 | 5 | 25.0 | | | |
| | 2800 | OTTA | 24 | 1700 | | 12 | 2.0 | | | |
| | 2800 | OTTA | 27 | 1750 | | 155 | 1.4 | | | |
| 28 | 100 | GORK | 44 | 0436 | | 17.4 | | 5.0 | | |
| | 260 | ONDR | 41 | 0950 | 0954.5 | 310 | 25.0 | | | |
| | 18 | MCMA | 6 | 1300 | 1302 | 2 | | | 1 | |
| | 18 | MCMA | 42 | 1325 | 1327 | 6 | | | 1 | |
| 29 | 100 | GORK | 6 | 0317.6 | 0317.7U | .8 | 40.0D | | | |
| | 9750 | IRKU | 1 | 0525 | 0528.7 | 6 | 3.6 | 8.6 | | |
| | 260 | ONDR | 41 | 0848.5 | 0907.5 | 53.5 | 30.0 | | | |
| | 260 | ONDR | 45 | 1123.5 | 1139 | 18 | 30.0 | | | |
| | 18 | MCMA | 6 | 1249 | 1251 | 2 | | | 1 | |
| | 18 | MCMA | 41 | 1359 | 1413 | 18 | | | 1 | |
| | 18 | MCMA | 6 | 1447 | 1448 | 2 | | | 1 | |
| | 606 | SGMR | 3 | 1539.5 | 1540 | 1 | 12.8 | 4.2 | | |
| | 18 | MCMA | 6 | 1540 | 1541 | 2 | | | 1 | |
| | 1415 | SGMR | 41 | 1542.3 | 1542.4 | 3.1 | 7.1 | 2.3 | | |
| | 225 | HARS | 5 | 1628.5 | 1629 | 1.5 | 40.0 | 15.0 | | |
| | 245 | SGMR | 6 | 1630.2 | 1630.5 | .9 | 65.3 | 21.8 | | |
| | 18 | MCMA | 6 | 1630 | 1631 | 1 | | | 1 | |
| | 18 | MCMA | 41 | 1657 | 1658 | 4 | | | 1 | |
| | 9400 | HUAN | 1 | 1659.3 | 1659.8 | 1.5 | 10.0 | 4.7 | | |
| | 18 | MCMA | 6 | 1832 | 1833 | 2 | | | 1 | |
| | 9400 | HUAN | 1 | 1833.9 | 1835.3 | 3.2 | 16.6 | 4.7 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## AUGUST 1973

| AUG. 1973 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8800 | SGMR | 4 | 1834.4 | 1835.2 | 4.1 | 24.6 | 8.2 | | |
| | 7000 | SAOP | 3 | 1834.1 | 1834.9 | 2.1 | 23.5 | 12.5 | | |
| | 4995 | SGMR | 2 | 1834.3 | 1835.2 | 2.1 | 7.9 | 2.1 | | |
| | 18 | MCMA | 42 | 1841 | 1845 | 5 | | | 1 | |
| | 410 | SGMR | 6 | 1843.8 | 1844.1 | .4 | 5.3 | 1.9 | | |
| | 245 | SGMR | 6 | 1843.8 | 1843.8 | .5 | 124.0 | 15.0 | | |
| | 18 | MCMA | 6 | 1845 | 1846 | 2 | | | 1 | |
| | 7000 | SAOP | 2 | 1851.5 | 1854.4 | 3.3 | 8.0 | 4.0 | | |
| | 2800 | OTTA | 1 | 1852 | 1855 | 6 | 2.0 | 1.0 | | |
| | 18 | MCMA | 6 | 2029 | 2029 | 1 | | | 1 | |
| | 2800 | OTTA | 20 | 2050 | 2110 | 110 | 2.6 | 1.4 | | |
| 30 | 9750 | IRKU | 1 | 0106.5 | 0107.2 | 3 | 3.6 | 9.6 | | |
| | 260 | ONDR | 44 | 0630 | 0912.5 | 280 | 50.0 | | | |
| | 221 | ABST | 6 | 0703.8 | 0704.2 | 1.2 | 12.0 | | | |
| | 221 | ABST | 6 | 0725 | 0725.5 | 1 | 8.0 | | | |
| | 221 | ABST | 6 | 0741.8 | 0742 | .5 | 14.0 | | | |
| | 221 | ABST | 6 | 0857.2 | 0857.5 | .8 | 12.0 | 3.0 | | |
| | 221 | ABST | 6 | 0956 | 0956.2 | .5 | 17.0 | | | |
| | 18 | MCMA | 6 | 1244 | 1246 | 3 | | | 1 | |
| | 2800 | OTTA | 21 | 1925 | 1950 | 65 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 1 | 1933 | 1936 | 3 | 1.4 | 0.7 | | |
| | 2695 | BOUL | 3 | 2350.5 | 2351 | 1.5 | 4.0 | 1.0 | | |
| | 1420 | BOUL | 3 | 2350.5 | 2351 | 1.5 | 2.0 | 1.0 | | |
| 31 | 1415 | MANI | 2 | 0613.2 | 0613.4 | 1 | 2.4 | .5 | | |
| | 606 | MANI | 2 | 0613.2 | 0613.4 | 1 | 8.6 | 2.6 | | |
| | 260 | ONDR | 44 | 0640 | 0938 | 270 | 65.0 | | | |
| | 221 | ABST | 44 | 0700 | 0711 | 240 | 10.0 | | | |
| | 221 | ABST | 6 | 0710 | 0711 | 1.8 | 44.0 | 6.0 | | |
| | 200 | GORK | 44 | 0805 | | 130 | | 5.0 | | |
| | 245 | SGMR | 44 | 1011 E | 1335.9 | 784 D | 79.0 | | | |
| | 245 | BOUL | 42 | 1247 E | | 734 D | | | 2 | |
| | 208 | VORO | 44 | 2100 | 2350 | 240 | 12.0 | | | |
| | 221 | ABST | 6 | 0811.2 | 0812.5 | 1.5 | 28.0 | 4.0 | | |
| | 221 | ABST | 6 | 0845.5 | 0846 | .8 | 28.0 | 4.0 | | |
| | 221 | ABST | 6 | 0910 | 0910.2 | .8 | 25.0 | | | |
| | 221 | ABST | 6 | 0916.8 | 0918 | 1.8 | 25.0 | | | |
| | 200 | GORK | 6 | 0917.6 | 0918.4 | 1.5 | 80.0 | | | |
| | 100 | GORK | 6 | 0918 | 0918 | 1.6 | 35.0D | | | |
| | 200 | GORK | 41 | 0926.4 | 0926.5 | 3.2 | 60.0 | | | |
| | 200 | GORK | | 0926.4 | 0927.4 | | 50.0 | | | |
| | 200 | GORK | | 0926.4 | 0928.4 | | 140.0 | | | |
| | 210 | IZMI | 41 | 0946 | 0947 | 2 | 1000.0 | | | |
| | 100 | GORK | 41 | 0946.9 | 0947 | 1.9 | 20.0 | | | |
| | 100 | GORK | | 0946.9 | 0948 | | 19.0 | | | |
| | 18 | MCMA | 6 | 1225 | 1226 | 2 | | | 1 | |
| | 2800 | OTTA | 24 | 1235 | | 75 | 3.6 | | | |
| | 225 | HARS | 45 | 1318 | 1318.5 | 1 | 80.0 | 25.0 | | |
| | 2800 | OTTA | 20 | 1410 E | 1418 | 25 D | 2.6 | | | |
| | 2800 | OTTA | 20 | 1700 | 1745 | 90 | .9 | 0.5 | | |
| | 2700 | PENN | 3 | 1929.7 | 1930.8 | 2.5 | 16.7 | 4.0 | | |
| | 8800 | SGMR | 2 | 1930.3 | 1930.7 | 3 | 5.9 | 1.5 | | |
| | 4995 | SGMR | 4 | 1930.2 | 1930.8 | 2.9 | 10.5 | 2.7 | | |
| | 4995 | BOUL | 3 | 1930 | 1931 | 2.5 | 13.0 | 4.0 | | |
| | 2800 | OTTA | 3 | 1930 | 1930.7 | 3.5 | 17.0 | 4.2 | | |
| | 2695 | SGMR | 4 | 1930.2 | 1930.7 | 5.7 | 19.4 | 4.9 | | |
| | 2695 | BOUL | 8 | 1930 | 1931 | 4 | 18.0 | 7.0 | | |
| | 1420 | BOUL | 8 | 1930 | 1931 | 3.5 | 10.0 | 3.0 | | |
| | 1415 | SGMR | 2 | 1930.3 | 1931.1 | 4.8 | 9.7 | 2.4 | | |
| | 960 | PENN | 1 | 1930.1 | 1931.2 | 2.8 | 5.8 | 1.6 | | |
| | 606 | SGMR | 2 | 1930.3 | 1930.7 | 2.3 | 6.6 | 1.6 | | |
| | 410 | SGMR | 6 | 1930.2 | 1930.3 | 2 | 47.2 | 5.9 | | |
| | 100 | HIRA | 45 | 2222 | 2222.4 | 1 | 95.0 | 20.0 | | |

Observatories:

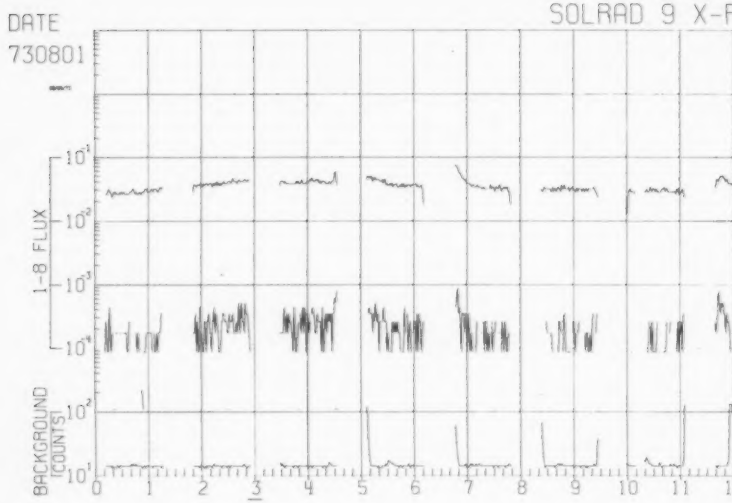
| | | | | | | |
|---|---|---|---|---|---|---|
| ABST = Abastumani | CANR = Canary Islands | HUAN = Huancayo | ONDR = Ondrejov | SGMR = Sagamore Hill |
| | CRIM = Simferopol | IRKU = Irkutsk | OTTA = Ottawa ARO | |
| BERL = Berlin-Adlershof | CRON = Carnarvon | IZMI = Moscow IZMIRAN | PENN = Penn. State Univ. | TRST = Trieste |
| BERN = Berne | GORK = Gorky | KIEV = Kiev | PENT = Penticton | TYKW = Toyokawa |
| BORD = Bordeaux | HARS = Harestua | MANI = Manila | POTS = Potsdam | |
| BOUL = Boulder | HIRA = Hiraiso | MCMA = McMath-Hulbert | SAOP = Sao Paulo | UPIC = Upice |
| | DWIN = Dwingeloo | | | VORO = Voroshilov |

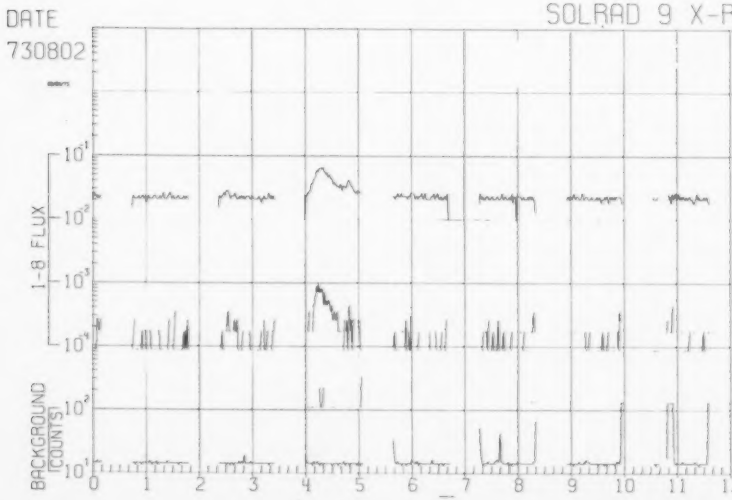
Explanation of Type Code:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 Simple 1 | 6 Minor | 22 Simple 3F | 27 Rise and Fall | 32 Absorption | 44 Noise Storm in Progress |
| 2 Simple 1F | 7 Minor + | 23 Simple 3AF | 28 Precursor | 40 Fluctuation | 45 Complex |
| 3 Simple 2 | 8 Spike | 24 Rise | 29 Post Burst Increase | 41 Group of Bursts | 46 Complex F |
| 4 Simple 2F | 20 Simple 3 | 25 Rise A | 30 Post Burst Increase A | 42 Series of Bursts | 47 Great Burst |
| 5 Simple | 21 Simple 3A | 26 Fall | 31 Post Burst Decrease | 43 Onset of Noise Storm | 48 Major |
| | | | | | 49 Major + |

# SOLAR X-RAYS MEASURED BY SAT

AUGU

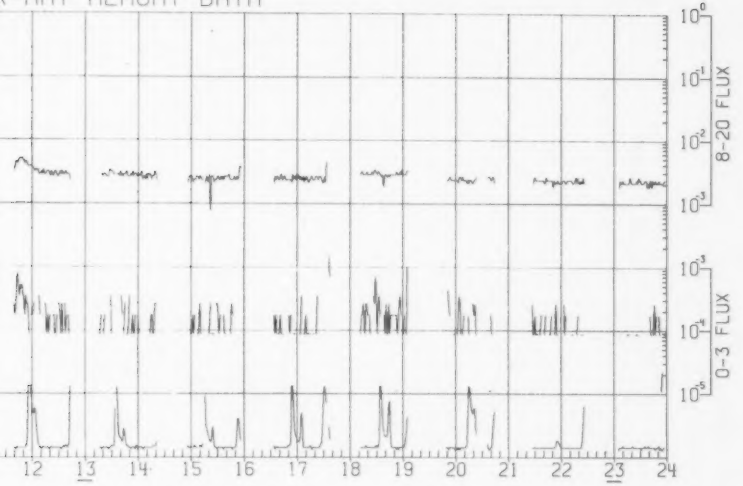


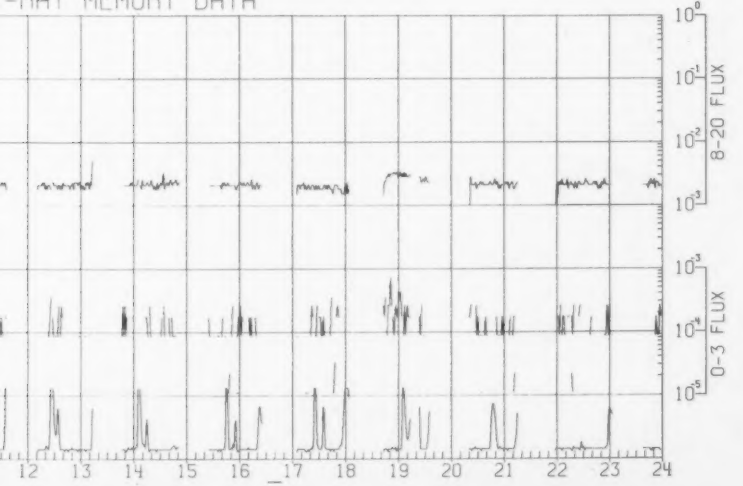
# ATELLITE SOLRAD 9 - EXPLORER 37

**GUST 1973**

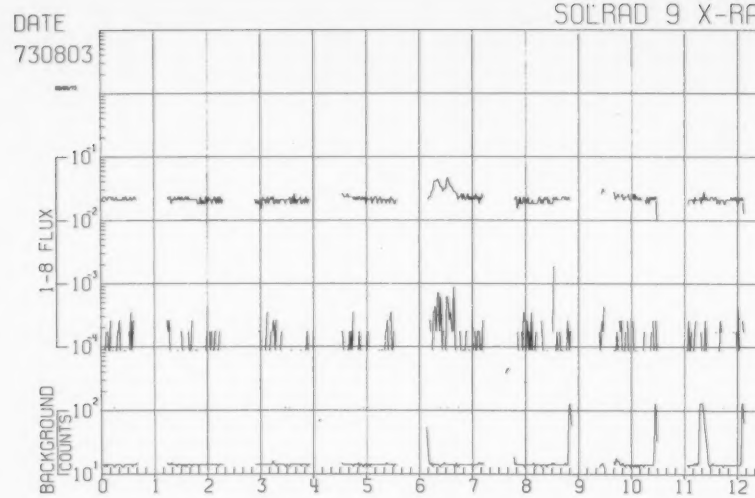
X-RAY MEMORY DATA




-RAY MEMORY DATA




21
Aug 73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BACKGROUND
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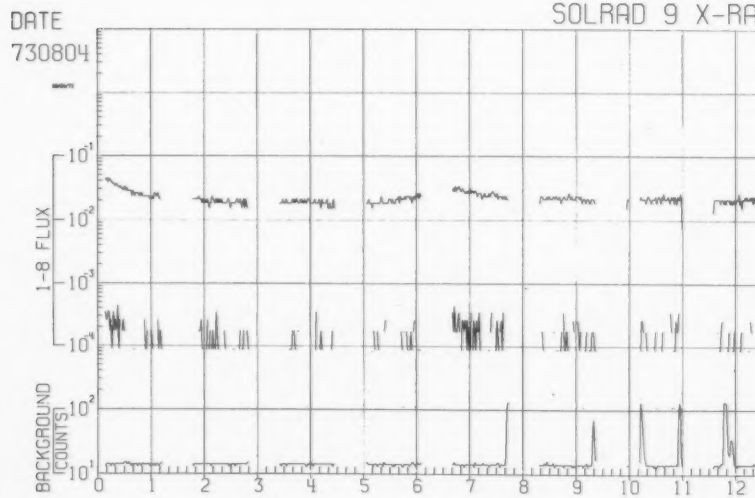
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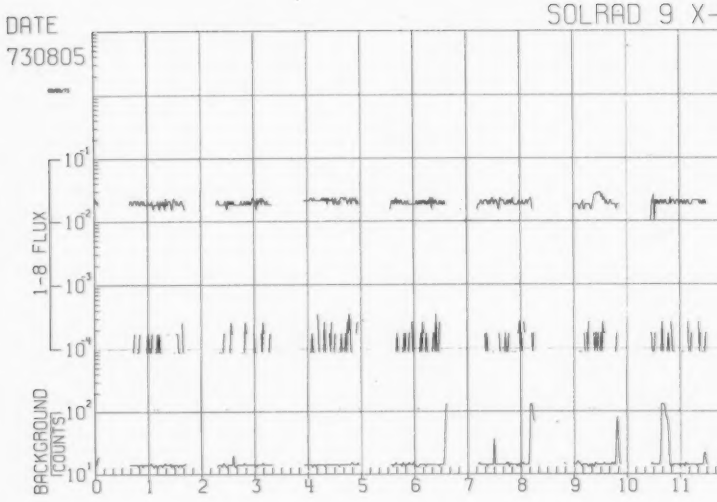
22
Aug 73

RAY MEMORY DATA




RAY MEMORY DATA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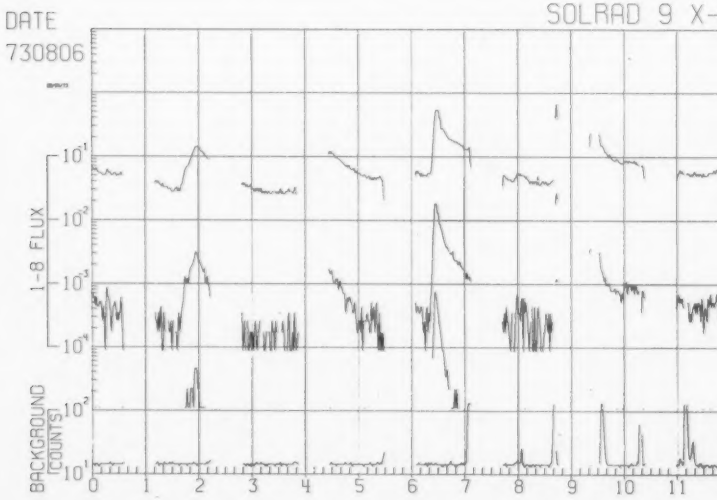
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BACKGROUND
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X-RAY MEMORY DATA




X-RAY MEMORY DATA




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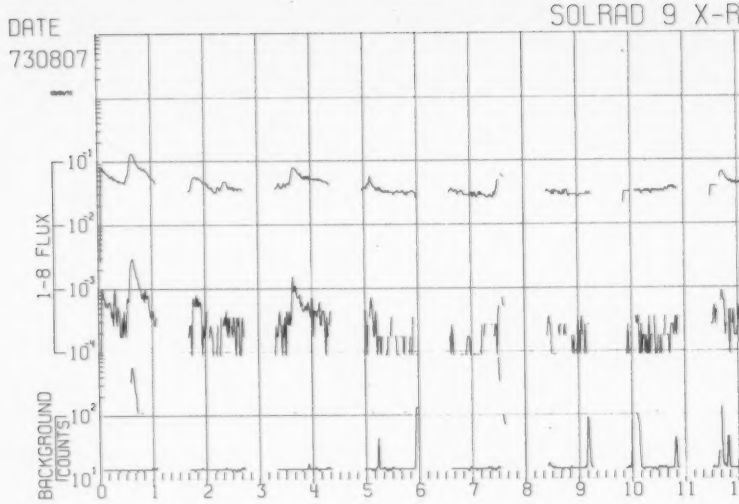
Aug 73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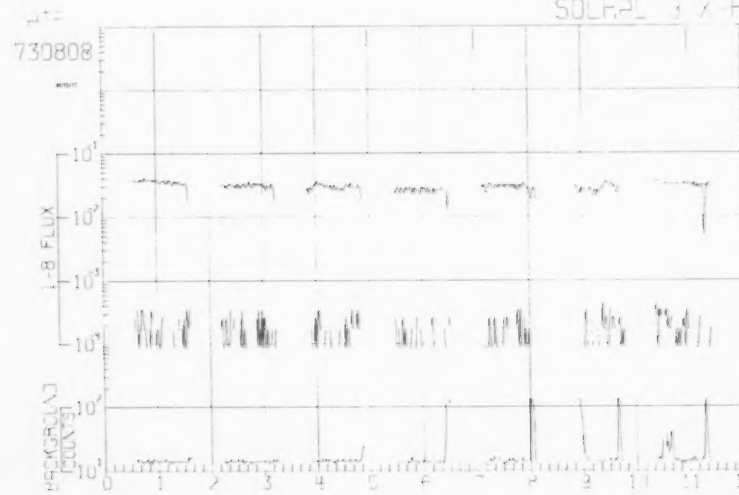
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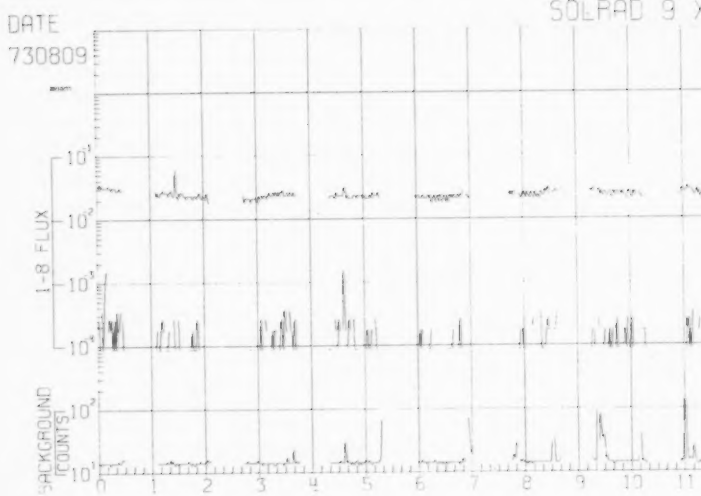
BACKGROUND (COUNTS)

24
Aug 73

-RAY MEMORY DATA




RAY MEMORY DATA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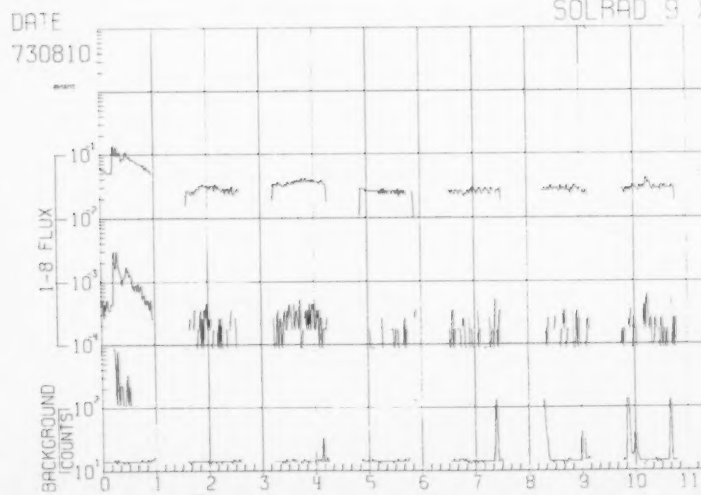
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1-8 FLUX
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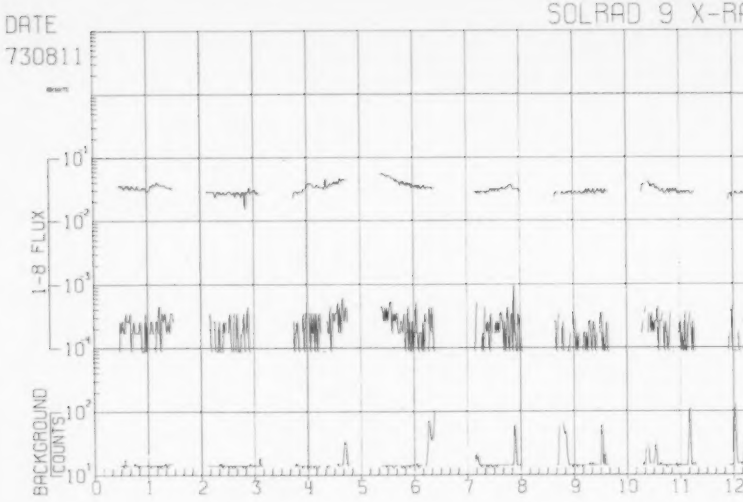
X-RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
11 12 13 14 15 16 17 18 19 20 21 22 23 24


X RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
11 12 13 14 15 16 17 18 19 20 21 22 23 24

25
Aug 73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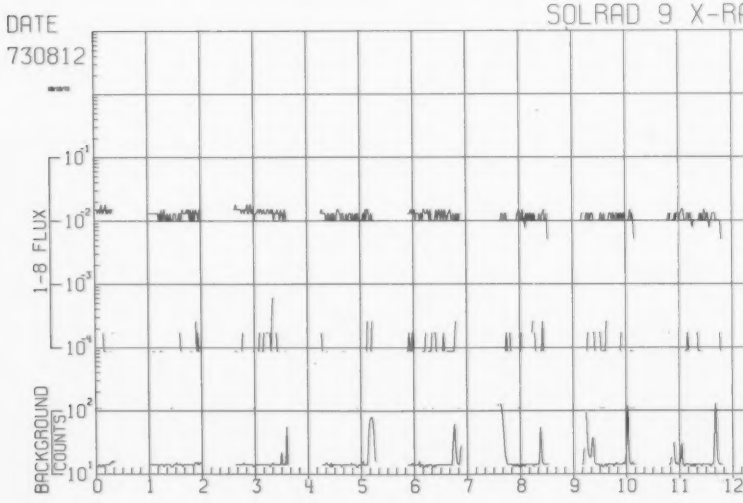
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1-8 FLUX
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26
Aug 73

-RAY MEMORY DATA

$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$
8-20 FLUX

$10^{3}$
$10^{4}$
$10^{5}$
0-3 FLUX

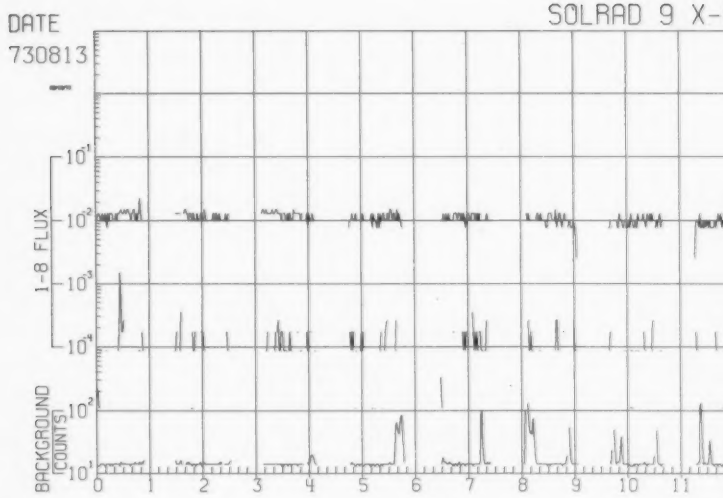
12 13 14 15 16 17 18 19 20 21 22 23 24

-RAY MEMORY DATA

$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$
8-20 FLUX

$10^{3}$
$10^{4}$
$10^{5}$
0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24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1-8 FLUX
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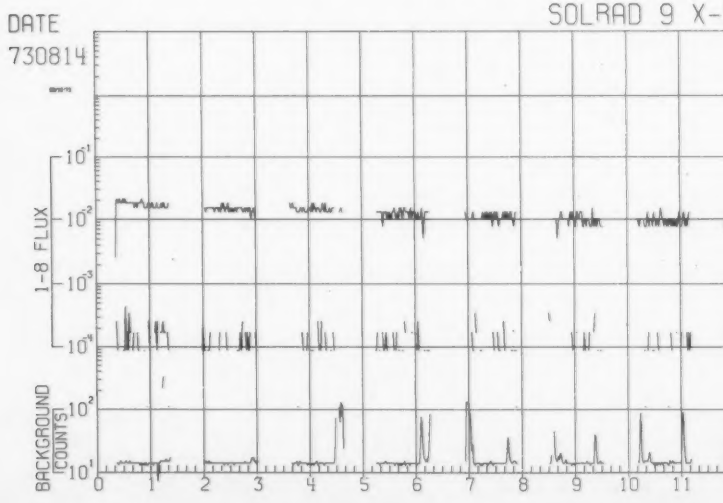
$10^{3}$
$10^{4}$
BACKGROUND [COUNTS]
$10^{2}$
$10^{1}$
0 1 2 3 4 5 6 7 8 9 10 11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1-8 FLUX
$10^{1}$
$10^{2}$
$10^{3}$
$10^{4}$
BACKGROUND [COUNTS]
$10^{2}$
$10^{1}$
0 1 2 3 4 5 6 7 8 9 10 11

X-RAY MEMORY DATA




X-RAY MEMORY DATA




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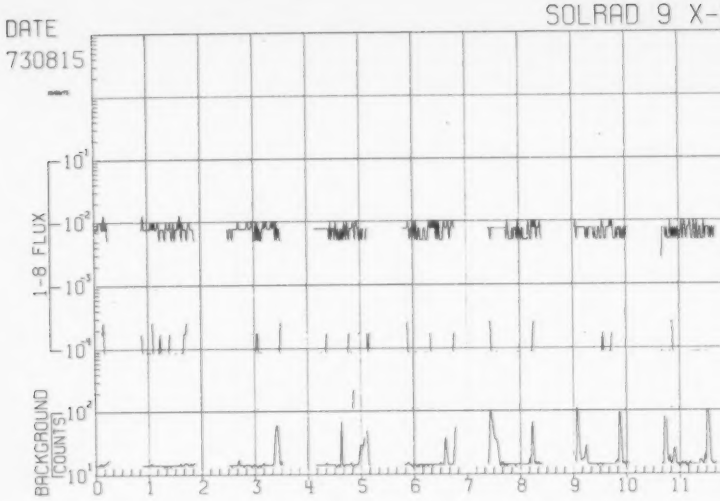
Aug 73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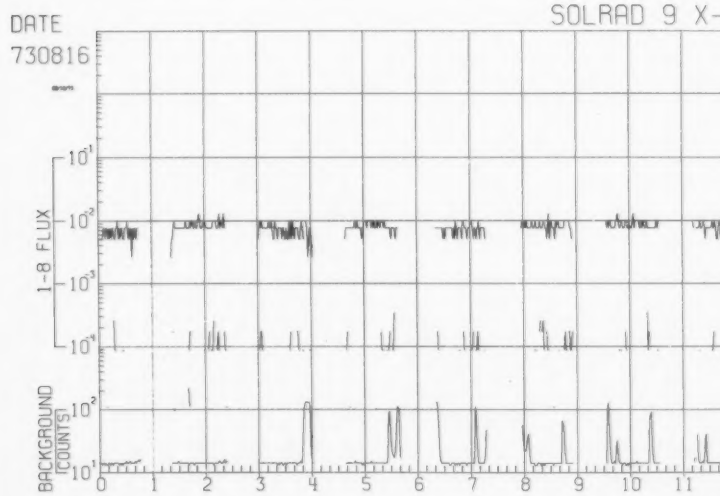
DATE
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1-8 FLUX
BACKGROUND (COUNTS)
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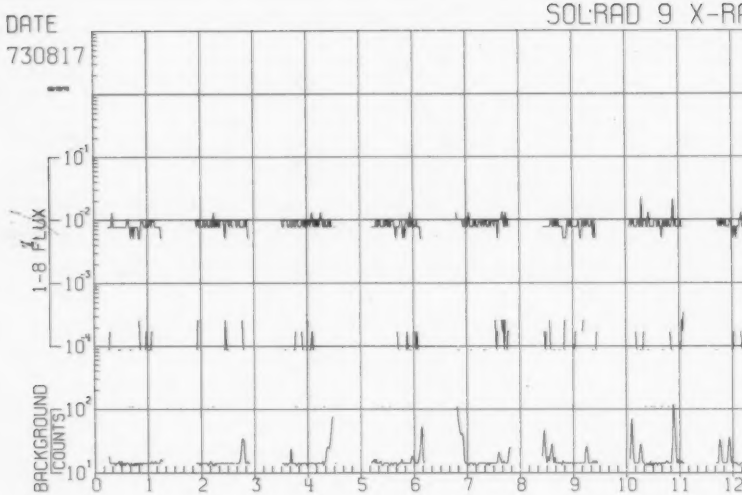
28
Aug 73

X-RAY MEMORY DATA




X-RAY MEMORY DATA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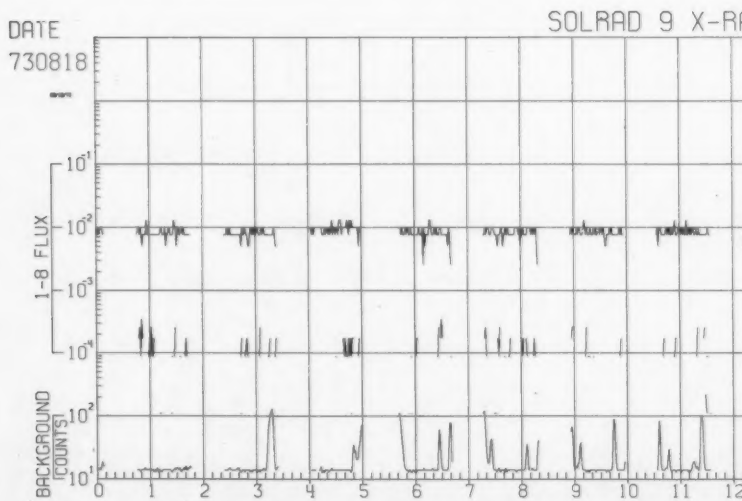
DATE
730818
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1-8 FLUX
BACKGROUND (COUNTS)
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-RAY MEMORY DATA




-RAY MEMORY DATA




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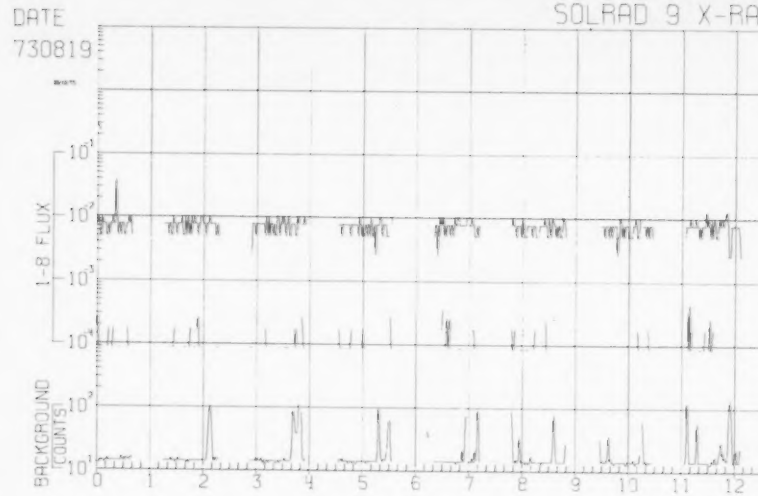
Aug 73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1-8 FLUX
BACKGROUND
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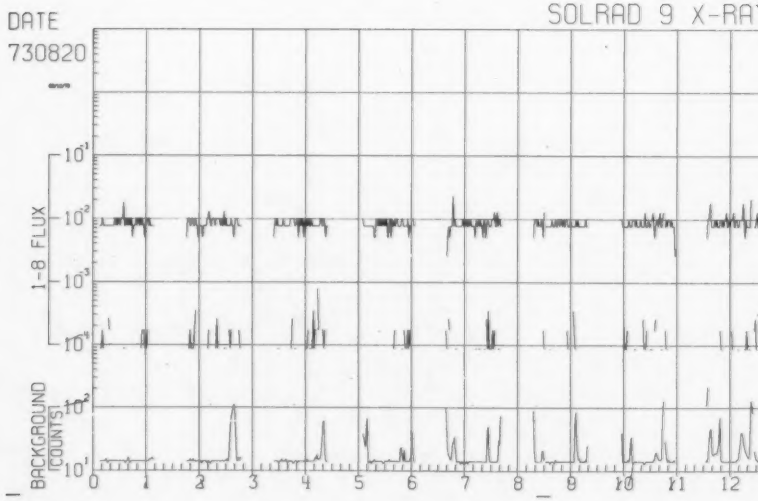
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730820
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1-8 FLUX
BACKGROUND
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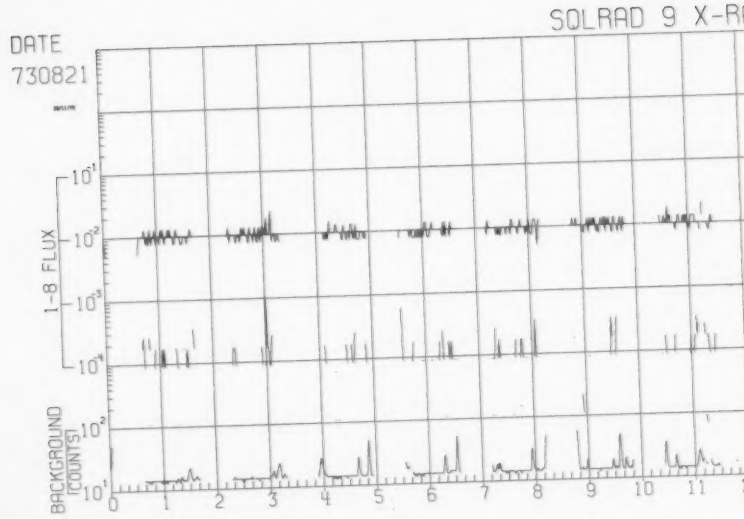
30
Aug 73

RAY MEMORY DATA




RAY MEMORY DATA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DATE
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1-8 FLUX
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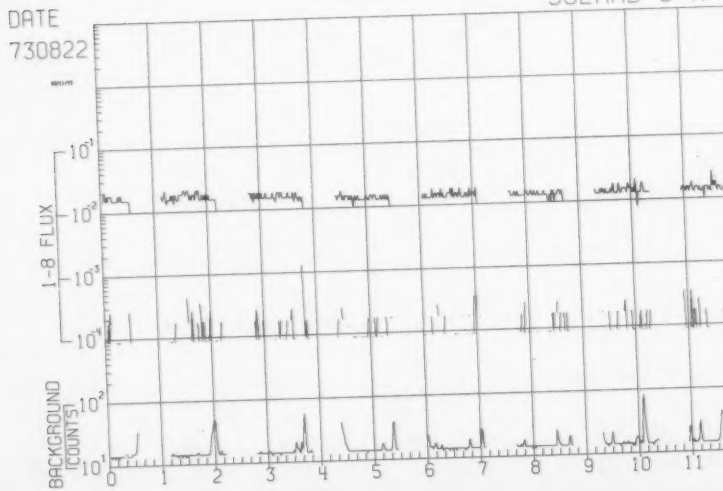
$10^{-2}$
$10^{-3}$
$10^{-4}$
BACKGROUND (COUNTS)
$10^{2}$
$10^{1}$
0 1 2 3 4 5 6 7 8 9 10 11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DATE
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1-8 FLUX
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$10^{-2}$
$10^{-3}$
$10^{-4}$
BACKGROUND (COUNTS)
$10^{2}$
$10^{1}$
0 1 2 3 4 5 6 7 8 9 10 11

X-RAY MEMORY DATA




X-RAY MEMORY DATA




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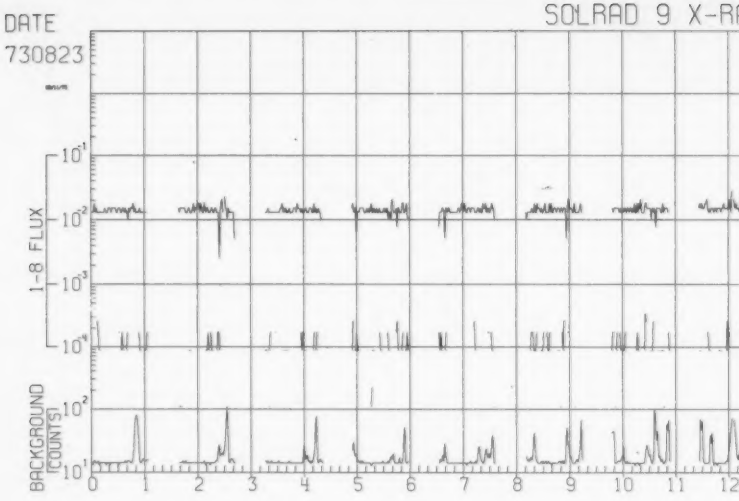
Aug 73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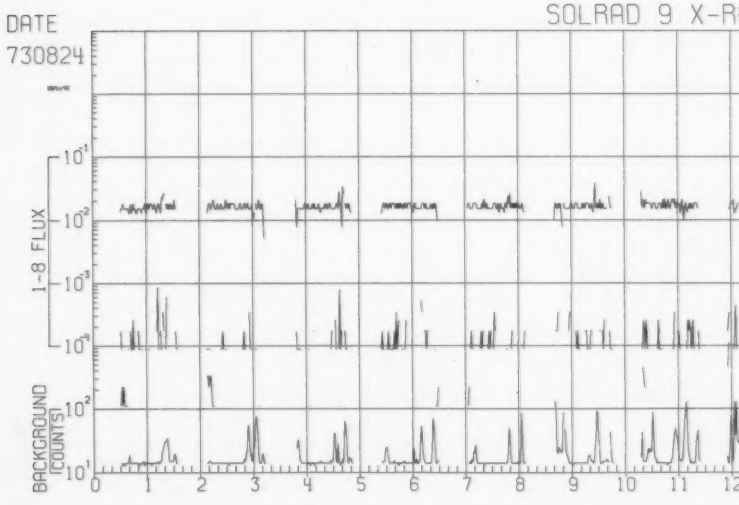
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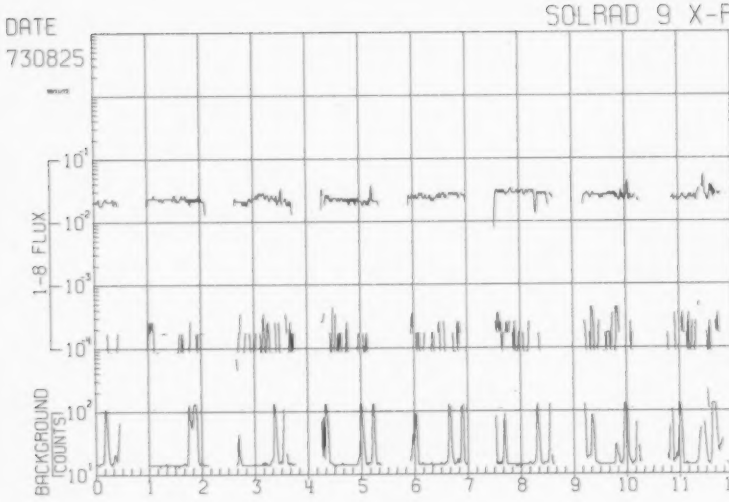
-RAY MEMORY DATA




-RAY MEMORY DATA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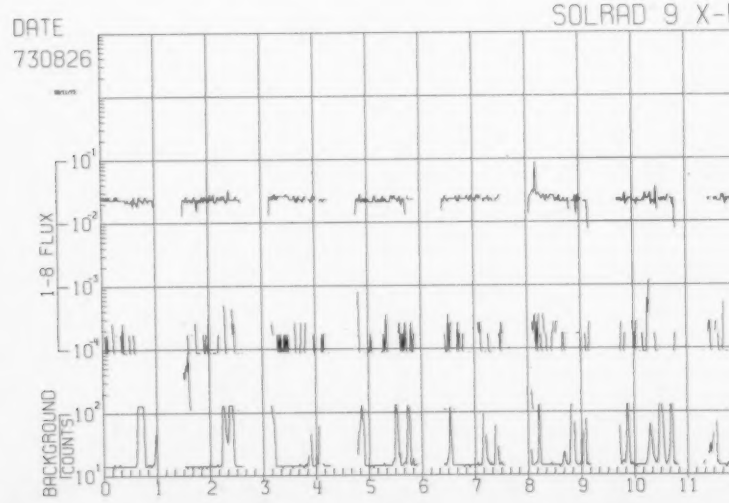
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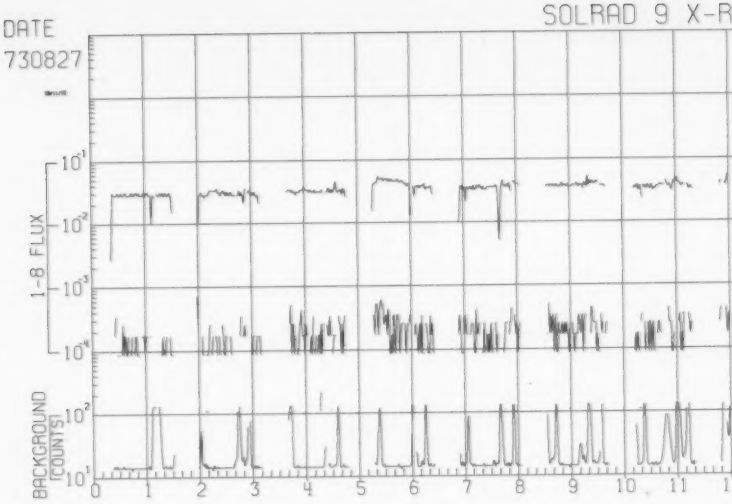
X-RAY MEMORY DATA




X-RAY MEMORY DATA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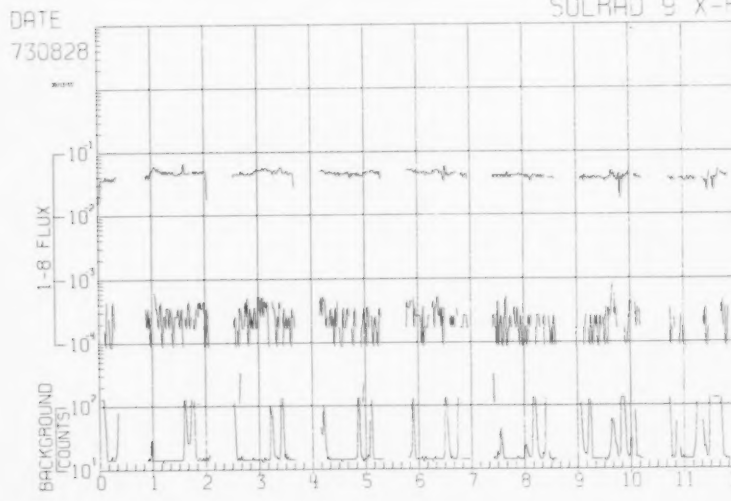
DATE
730828
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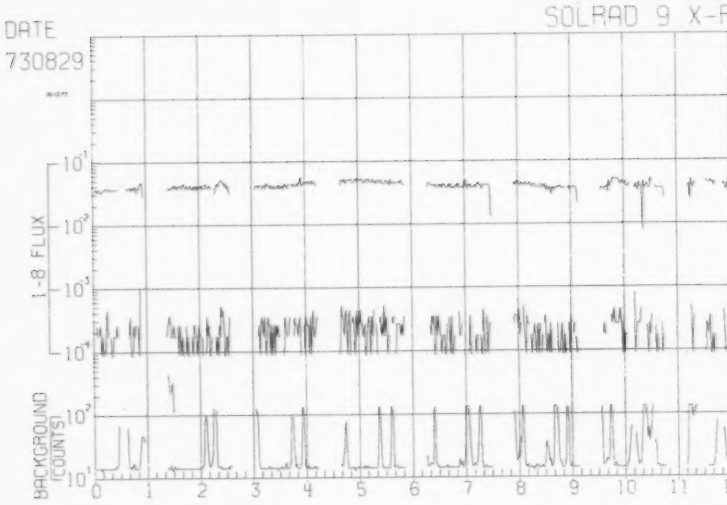
1-8 FLUX
BACKGROUND (COUNTS)
0 1 2 3 4 5 6 7 8 9 10 11

34
Aug 73

-RAY MEMORY DATA




X-RAY MEMORY DATA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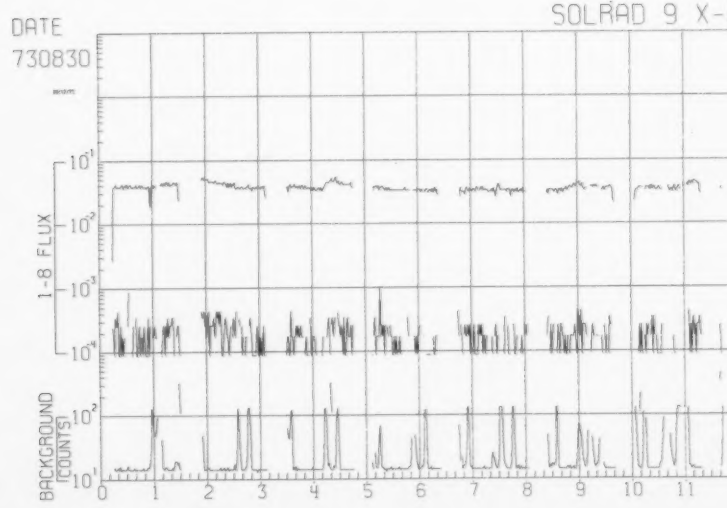
8
9
10
11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(COUNTS)
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7
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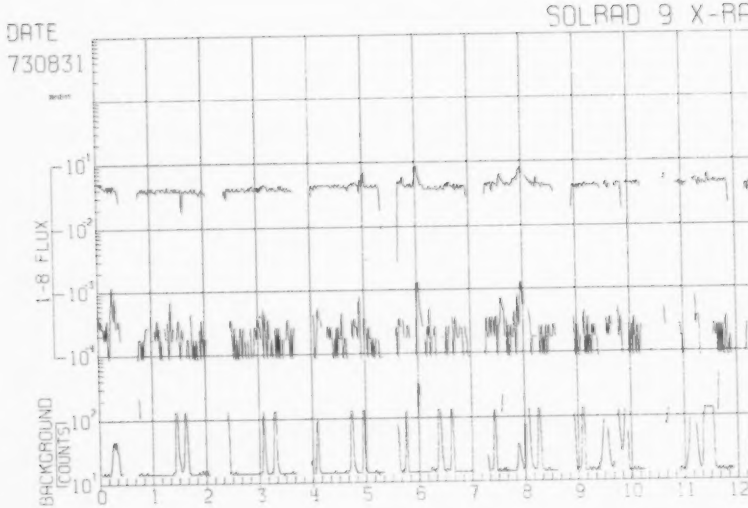
9
10
11

X-RAY MEMORY DATA




X-RAY MEMORY DATA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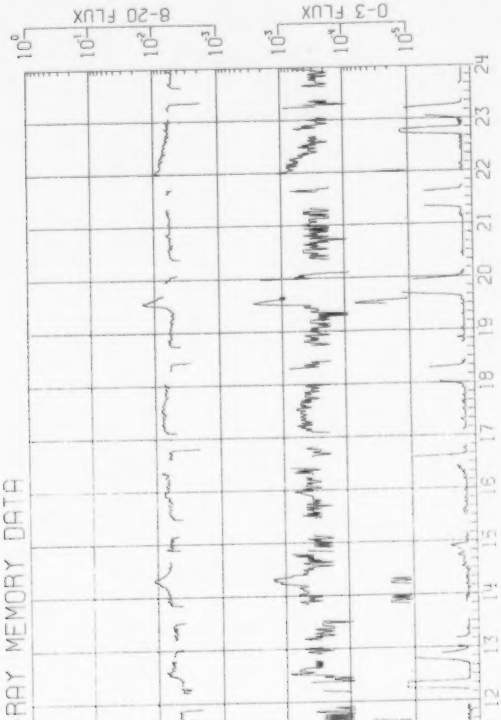
1-8 FLUX
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$
BACKGROUND (COUNTS)
$10^{2}$
$10^{1}$
0 1 2 3 4 5 6 7 8 9 10 11 12


RAY MEMORY DATA
0-3 FLUX
8-20 FLUX
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$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$
$10^{-5}$
12
13
14
15
16
17
18
19
20
21
22
23
24

# JULY 1973 DATA

## Contents

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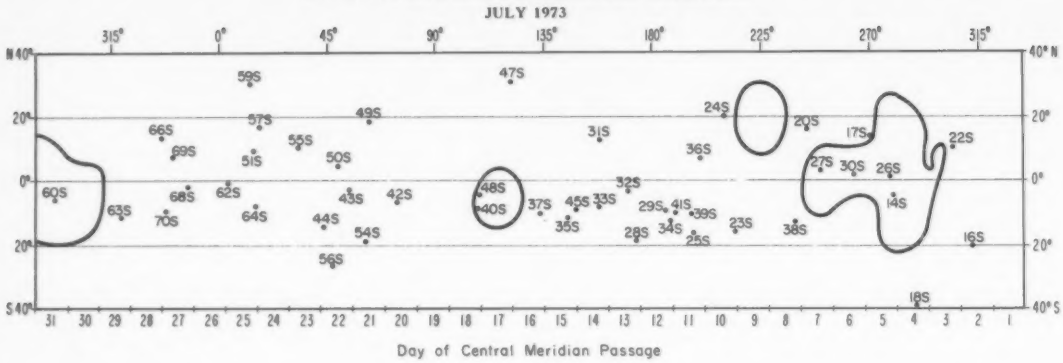
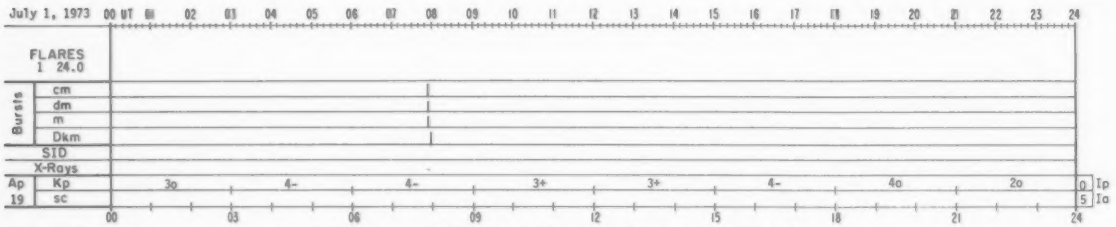
| Regional Flare Index | 45 |

For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

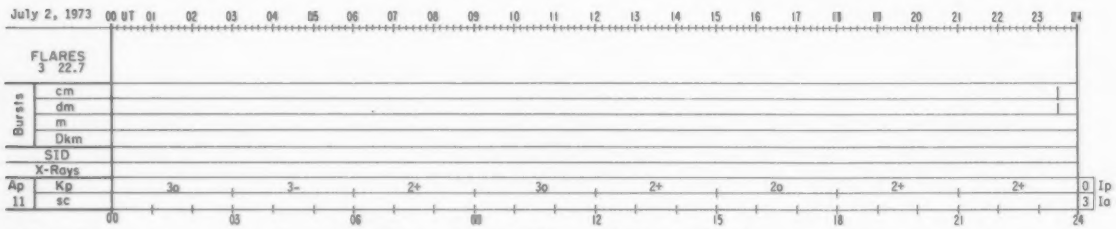
# ABBREVIATED CALENDAR RECORD



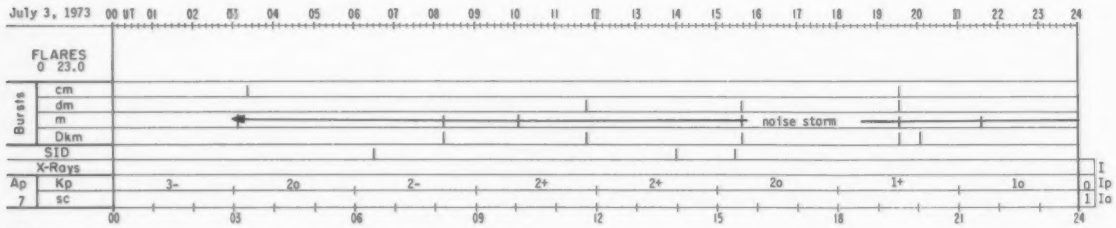

88 10 cm flux
26 Rz

One of five most magnetically disturbed days; moderately br. green corona 7 days earlier on SE limb, no coronal data 7 days later on W. limb.



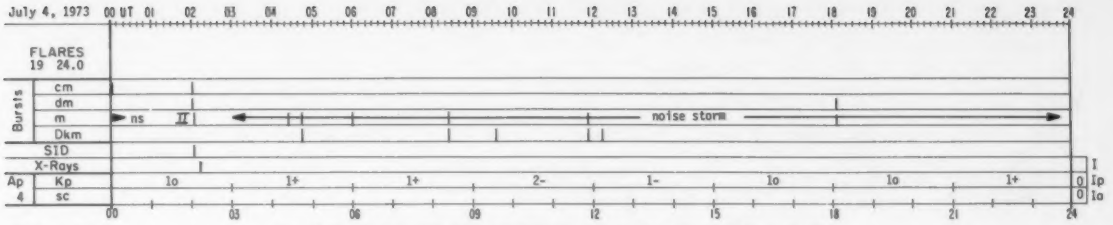

90 10 cm flux
115 Rz
CMP (12416) S21

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



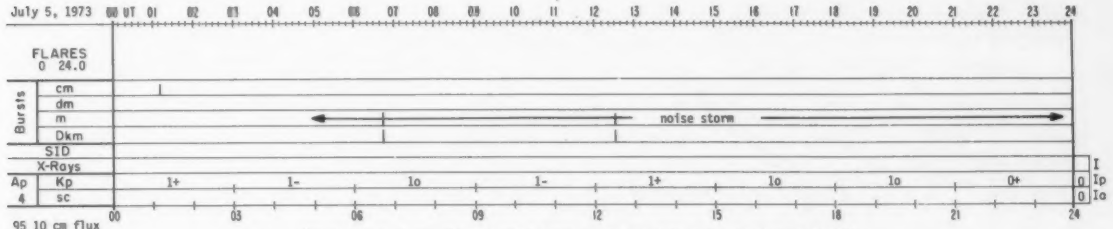

90 10 cm flux
29 Rz
CMP (12422) N10

No coronal data 7 days later on W. limb.



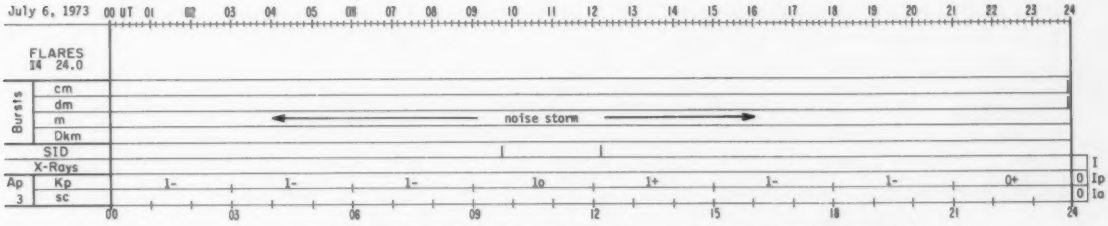

92 10 cm flux
24 Rz
CMP (12418) S40

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb.



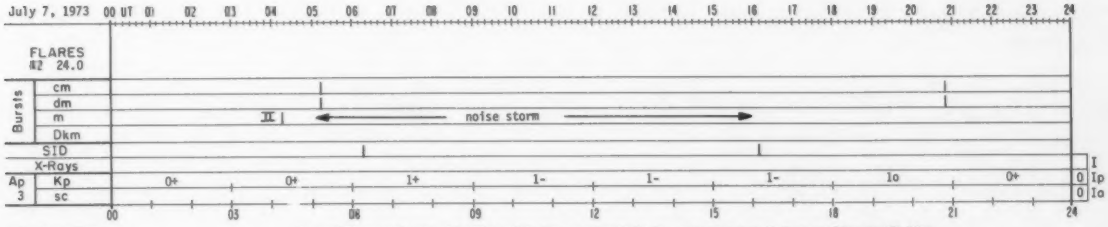

95 10 cm flux
32 Rz
CMP 12414 S06 (19218) S08 (αf)1
19220 S06 (βf)3
(12426) N00
12417 N13 (2) 19219 N12 (βp)5

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb.



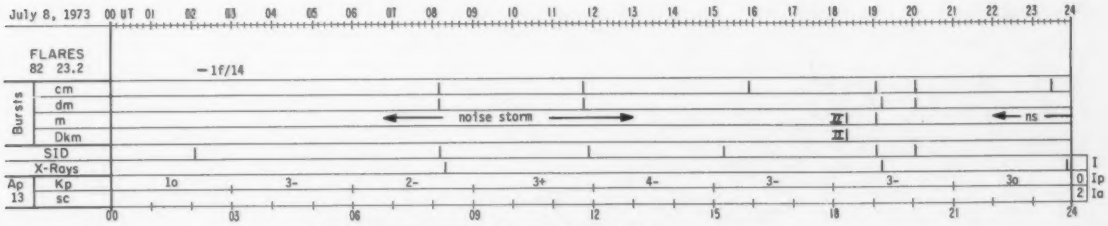

96 10 cm flux
44 Rz
CMP (12430) N01

One of five most magnetically quiet days; moderately br. green corona 7 days later on NW limb.



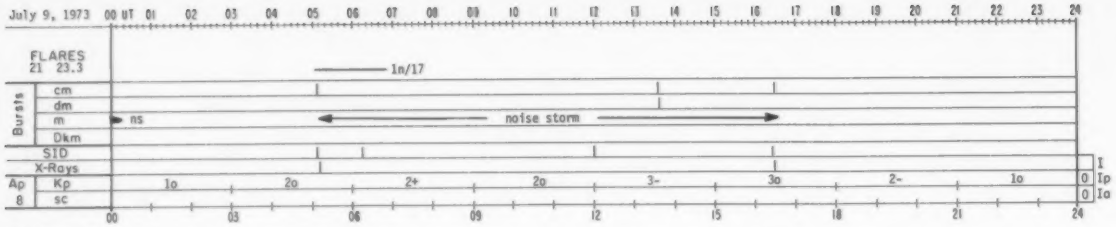

97 10 cm flux
46 Rz
CMP 12427 N02 19221 N02 (βp)4
(12420) N15 (3)

One of five most magnetically quiet days; moderately br. green corona 7 days earlier on NE limb.

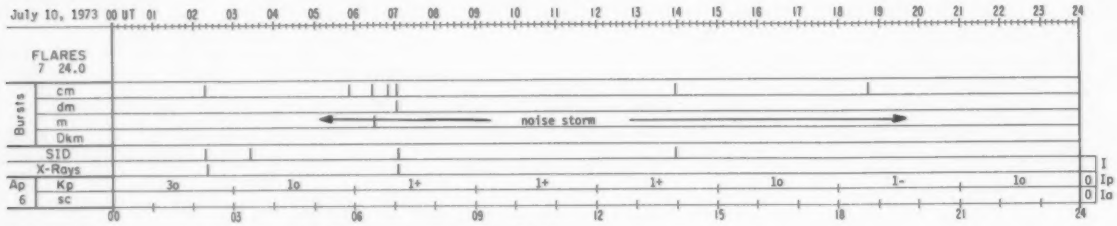



84 10 cm flux
44 Rz
CMP (12438) S13

Moderately br. green corona 7 days earlier on NE limb.

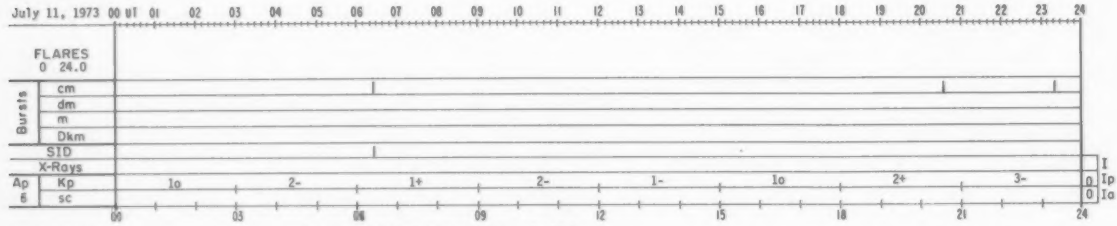



95 10 cm flux
34 Rz



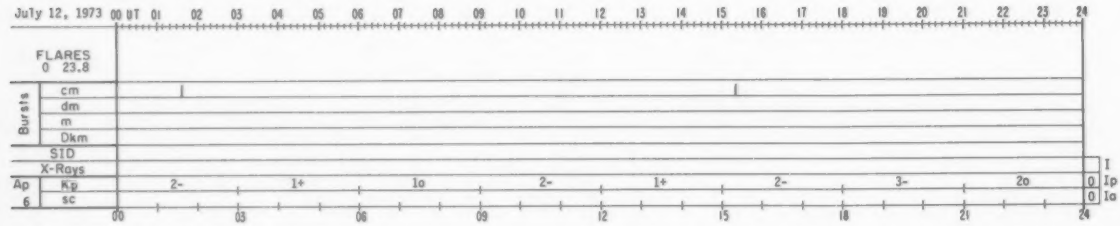

97 10 cm flux
30 Rz
CMP 12423 S17 (3)
12424 N20 (2)

One of five most magnetically quiet days.

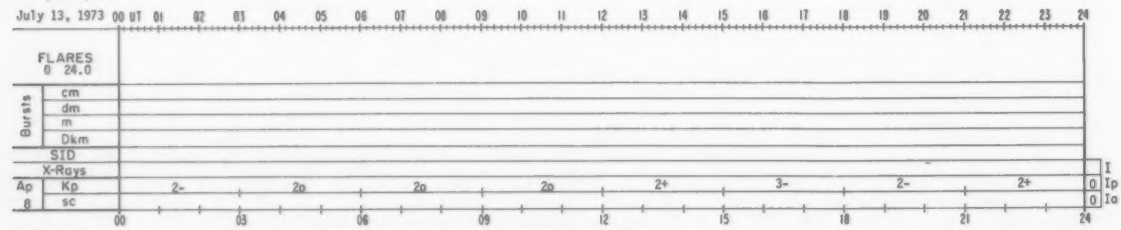



91 10 cm flux
23 Rz
CMP 12436 N06
12425 S17 (2) 19222 S11 (B)2
(12439) S11 S11
(12441) S11 (19224) S10 (B)2

No coronal data 7 days earlier on E. limb.

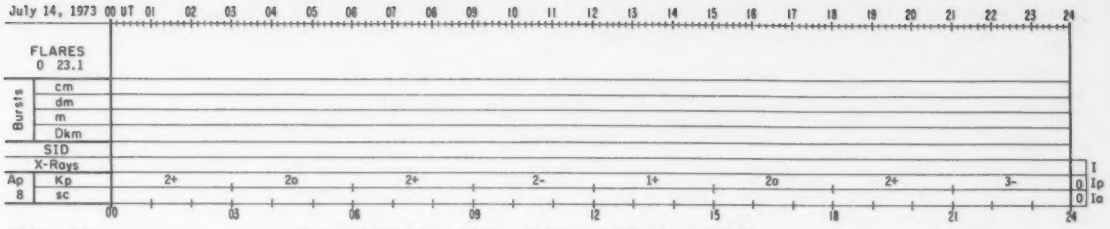



83 10 cm flux
16 Rz
CMP (12434) S13
(12429) S10



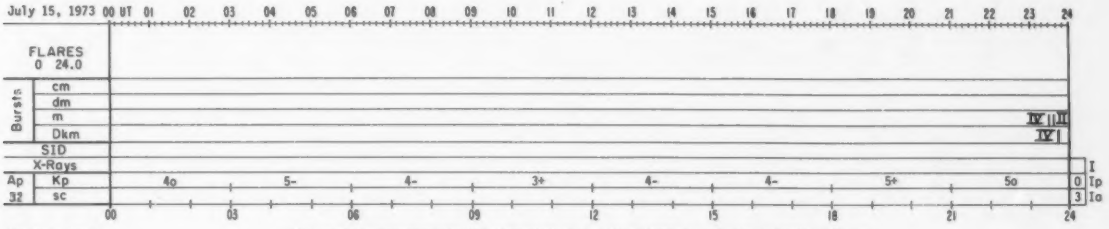

78 10 cm flux
15 Rz
CMP 12428 S19 (2)
(12446) S42
(12432) S04

Moderately br. green corona 7 days later on NW limb.



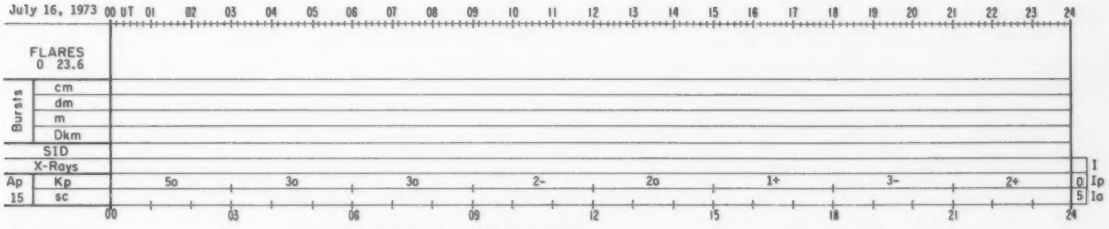

77 10 cm flux
9 Rz
CMP 12431 N12 (6) 19223 N13 (αp)1
12433 S09

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



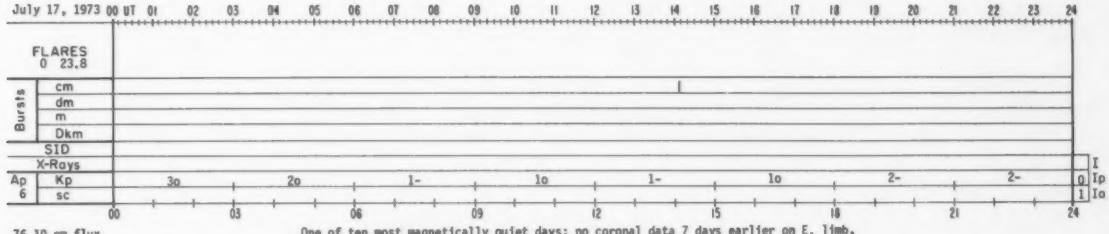

96 10 cm flux
16 Rz
CMP (12445) S10 (19226) S11 (βf)2
(12435) S12

One of five most magnetically disturbed days, with slight-to-moderate activity all day;
no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



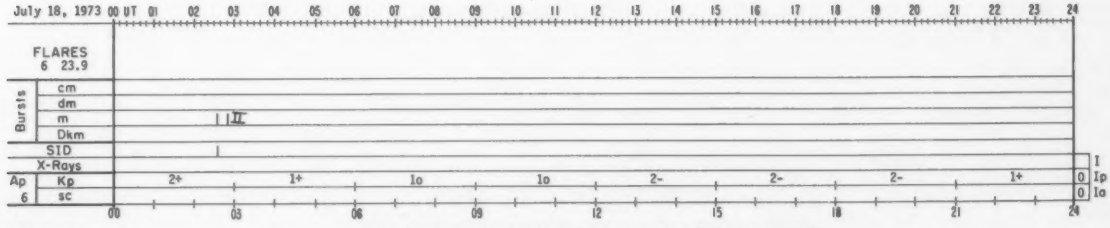

77 10 cm flux
9 Rz
CMP 12437 S11 (2)

No coronal data 7 days earlier on E. limb.



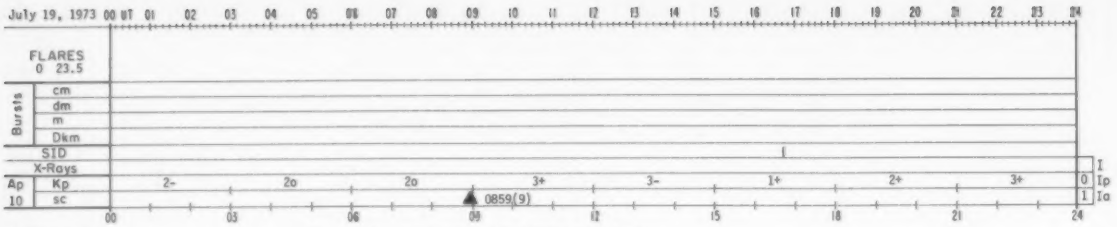

76 10 cm flux
22 Rz
CMP (12447) N31

One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb,
moderately br. green corona 7 days later on SW limb.



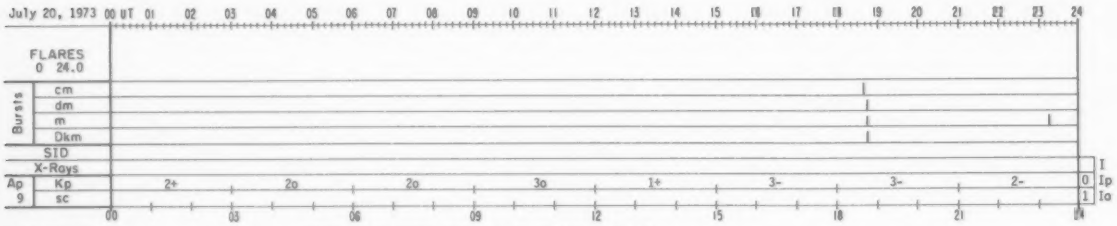

81 10 cm flux
36 Rz
CMP 12448 S05 19225 S06 (β)2 CMP July 17
(12440) S09 (5)

One of ten most magnetically quiet days; moderately br. green corona
7 days earlier on SE limb.



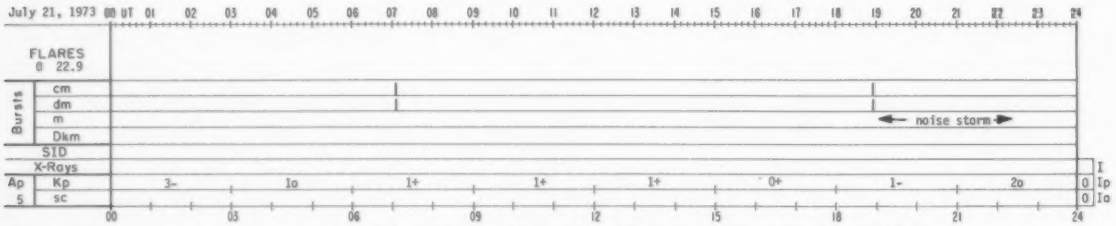

79 10 cm flux
23 Rz

Moderately br. green corona 7 days later on SW limb.



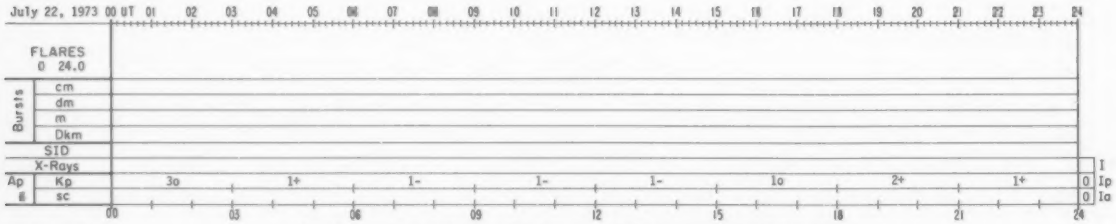

77 10 cm flux
8 Rz
CMP 12442 S08 (2)

Moderately br. green corona 7 days earlier on SE limb.



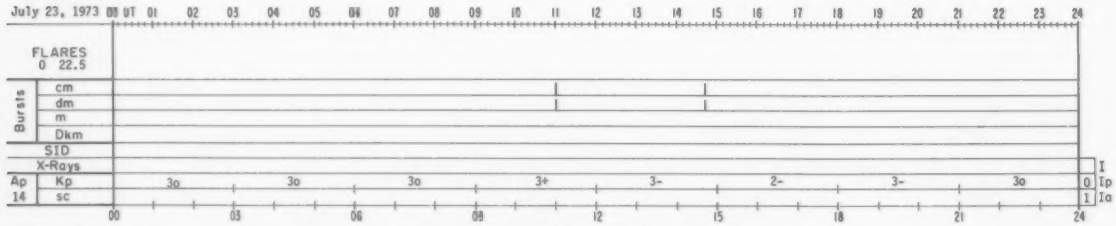

77 10 cm flux
8 Rz
CMP 12449 N18 19227 N18 (ap)3
(12454) S19

One of ten most magnetically quiet days; moderately br. green corona 7 days later on NW limb.



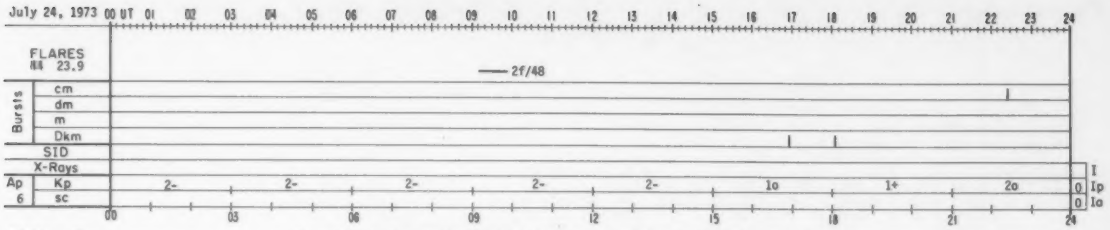

75 10 cm flux
14 Rz
CMP 12443 S03 (2) (19228) S03 (ap)1
(12450) N04
(12456) S27
12444 S15 (2)

One of ten most magnetically quiet days; moderately br. green corona 7 days earlier on SE limb, no coronal data 7 days later on W. limb.



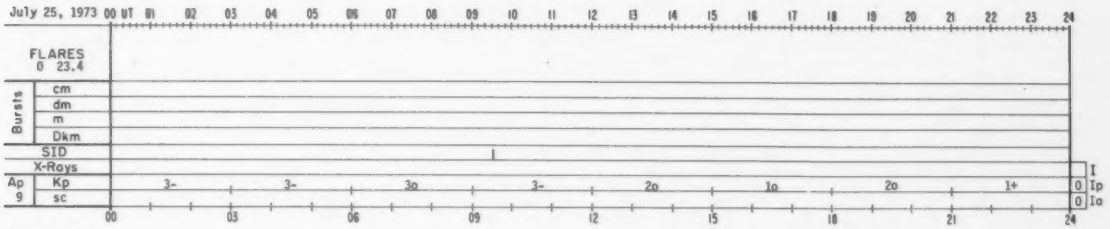

76 10 cm flux
0 Rz
CMP (12455) N10 N10

Moderately br. green corona 7 days earlier on SE limb.

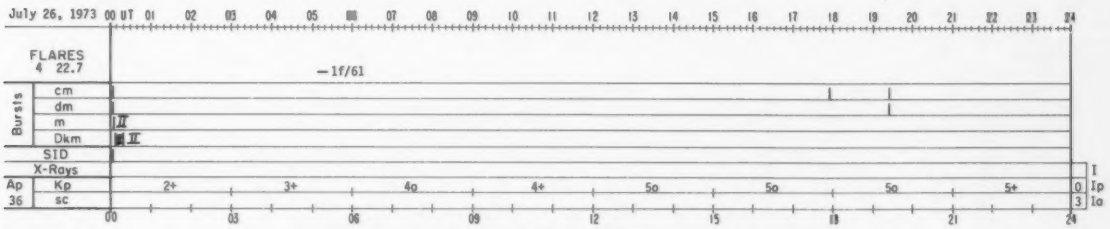



79 10 cm flux
9 Rz
CMP (12457) N17

One of ten most magnetically quiet days; no coronal data 7 days later on W. limb.

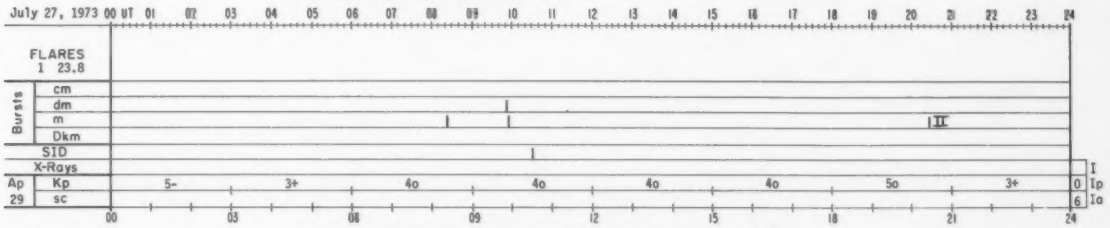



81 10 cm flux
14 Rz
CMP 12451 N09 19229 N10 E CMP July 24
(12464) S08
(12459) N30
(12462) S01



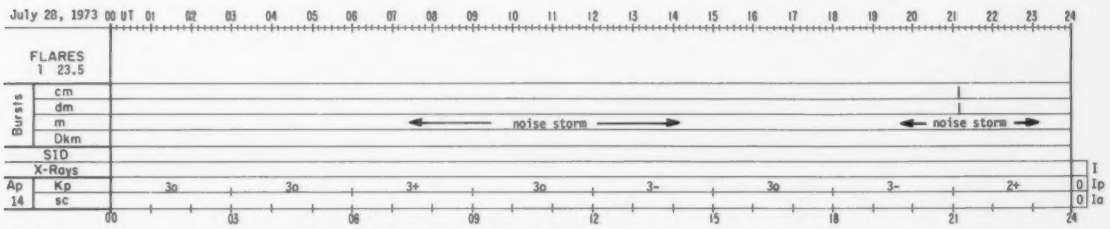

82 10 cm flux
8 Rz

One of five most magnetically disturbed days, with moderate activity after 0300;
no coronal data 7 days later on W. limb.



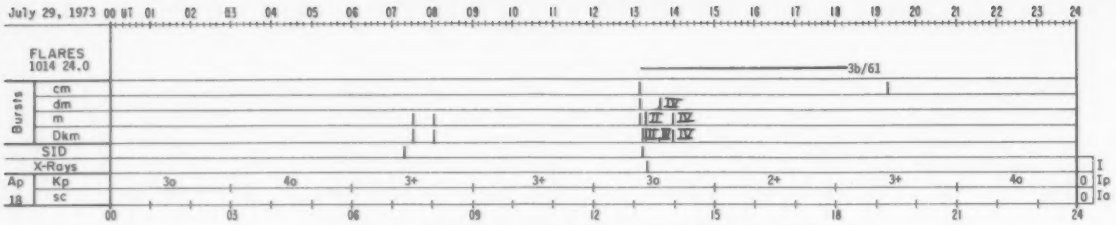

83 10 cm flux
9 Rz
CMP (12468) S02
(12469) N07
(12470) S10

One of five most magnetically disturbed days, with moderate activity all day;
auroral glow visible over British Isles at $\phi$ = 57° 2230-2245; moderately br.
green corona 7 days earlier on SE limb.



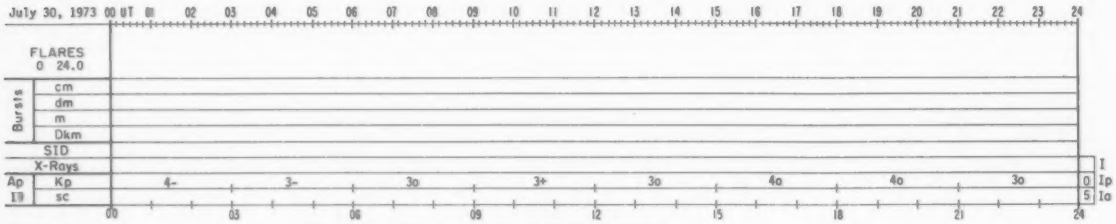

82 10 cm flux
10 Rz
CMP (12466) N13

Moderately br. green corona 7 days later on SW limb.



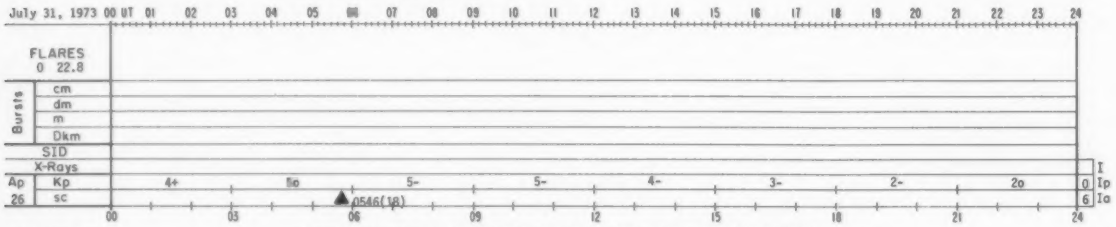

87 10 cm flux
17 Rz
CMP (12463) S12

Homogeneous auroral arc, becoming band, visible over Western Atlantic, with base of arc estimated to be overhead at $\phi$ = 64° 0220, band becoming rayed 0237 and visible to $\phi$ = 60°, then receding northward after 0245; no coronal data 7 days earlier on E. limb.




84 10 cm flux
11 Rz

Auroral glow visible over British Isles at $\phi$ = 58° 2200; moderately br. green corona 7 days later on W. limb.




84 10 cm flux
22 Rz
CMP 12460 S06 (2) 19230 S05 (Bp)4

One of five most magnetically disturbed days, with moderate activity to 1500; rayed auroral band visible over Western Atlantic to $\phi$ = 58° 0317, estimated overhead at $\phi$ = 63°-64°, band more diffuse at 0328 and estimated overhead at $\phi$ = 62°-63°; moderately br. green corona 7 days earlier on E. limb, and 7 days later on W. limb.

# REGIONAL FLARE INDEX

JULY 1973

| MC MATH PLAGE NO. | LAT | CMP DATE | DATE FIRST FLARE | DATE LAST FLARE | FLARE-INDEX SUM | FLARE-INDEX MEAN | TOTAL NO. OF FLARES |
|---|---|---|---|---|---|---|---|
| 12414 | S 6 | 73/07/05.0 | 73/06/29 | 73/07/08 | 78.94 | 7.09 | 11 |
| 12417 | N13 | 73/07/05.9 | 73/06/28 | 73/07/10 | 111.08 | 8.54 | 18 |
| 12427 | N 2 | 73/07/07.3 | 73/07/06 | 73/07/08 | 48.11 | 16.04 | 7 |
| 12431 | N12 | 73/07/14.4 | 73/07/18 | 73/07/18 | 5.82 | 5.82 | 1 |
| 12448 | S 5 | 73/07/18.0 | 73/07/24 | 73/07/24 | 44.39 | 44.39 | 1 |

Note:
The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

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UAG-30 "Catalog of Data on Solar-Terrestrial Physics", prepared by Environmental Data Service, NOAA, Boulder, Colorado, October 1973, 317 pages, price $1.75.

UAG-31 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1969", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, February 1974, 142 pages.

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